

FIG. 1A

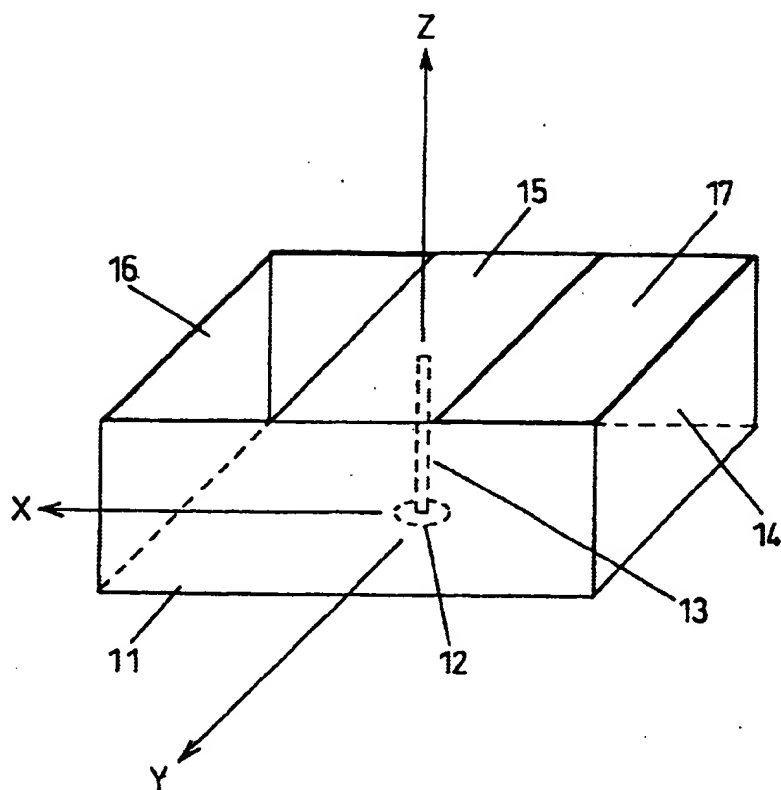
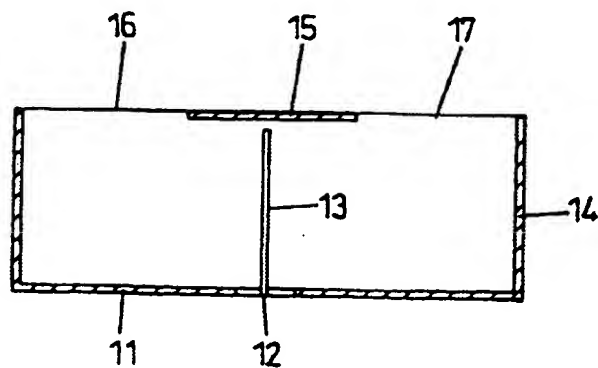


FIG. 1B



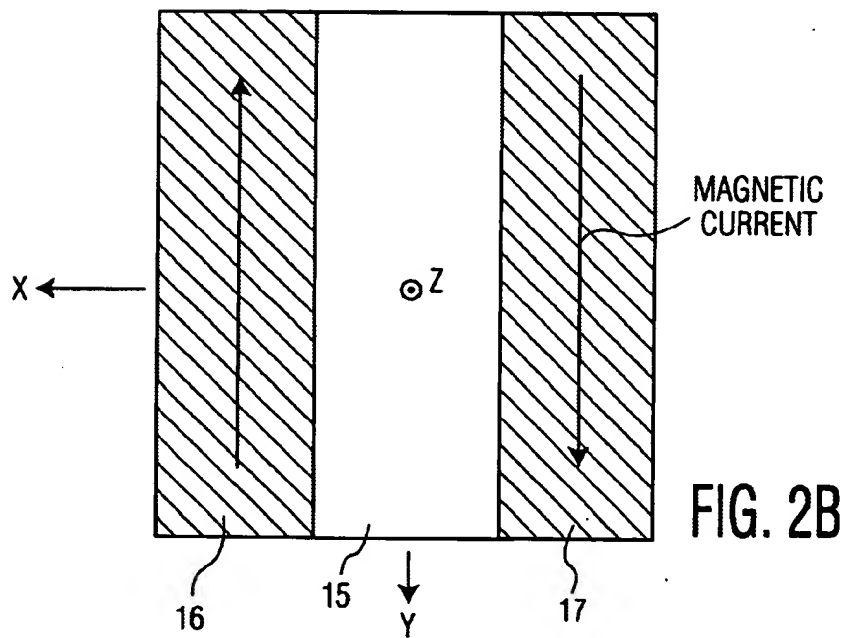
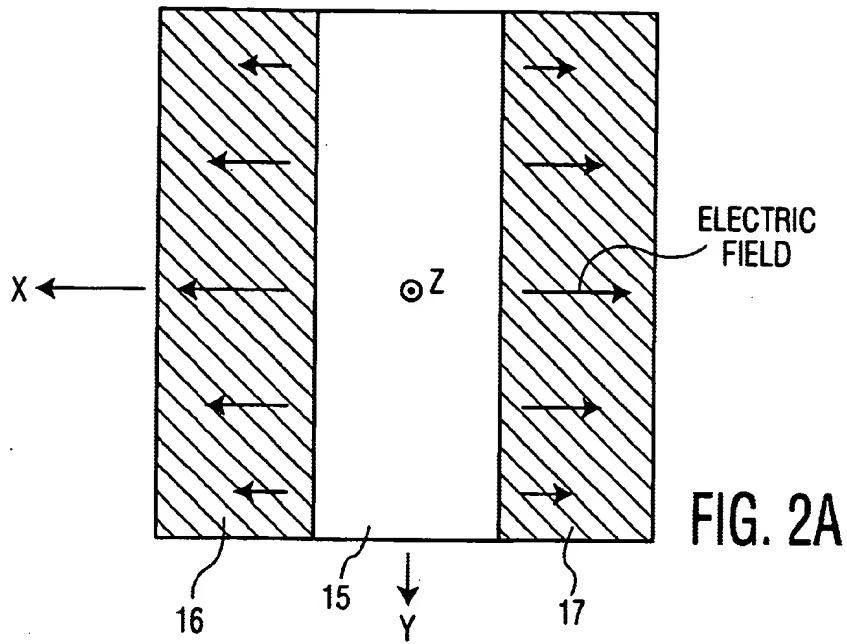
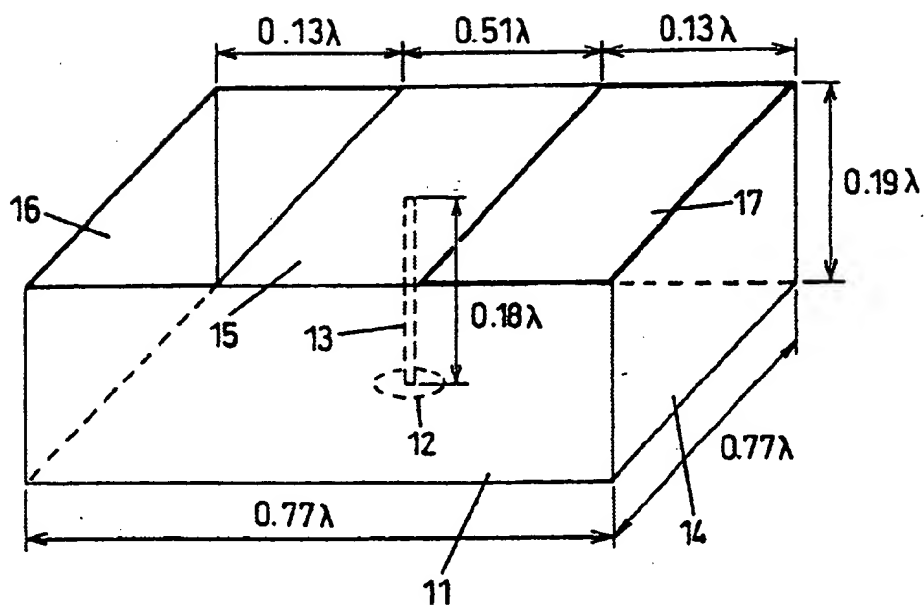


FIG. 3



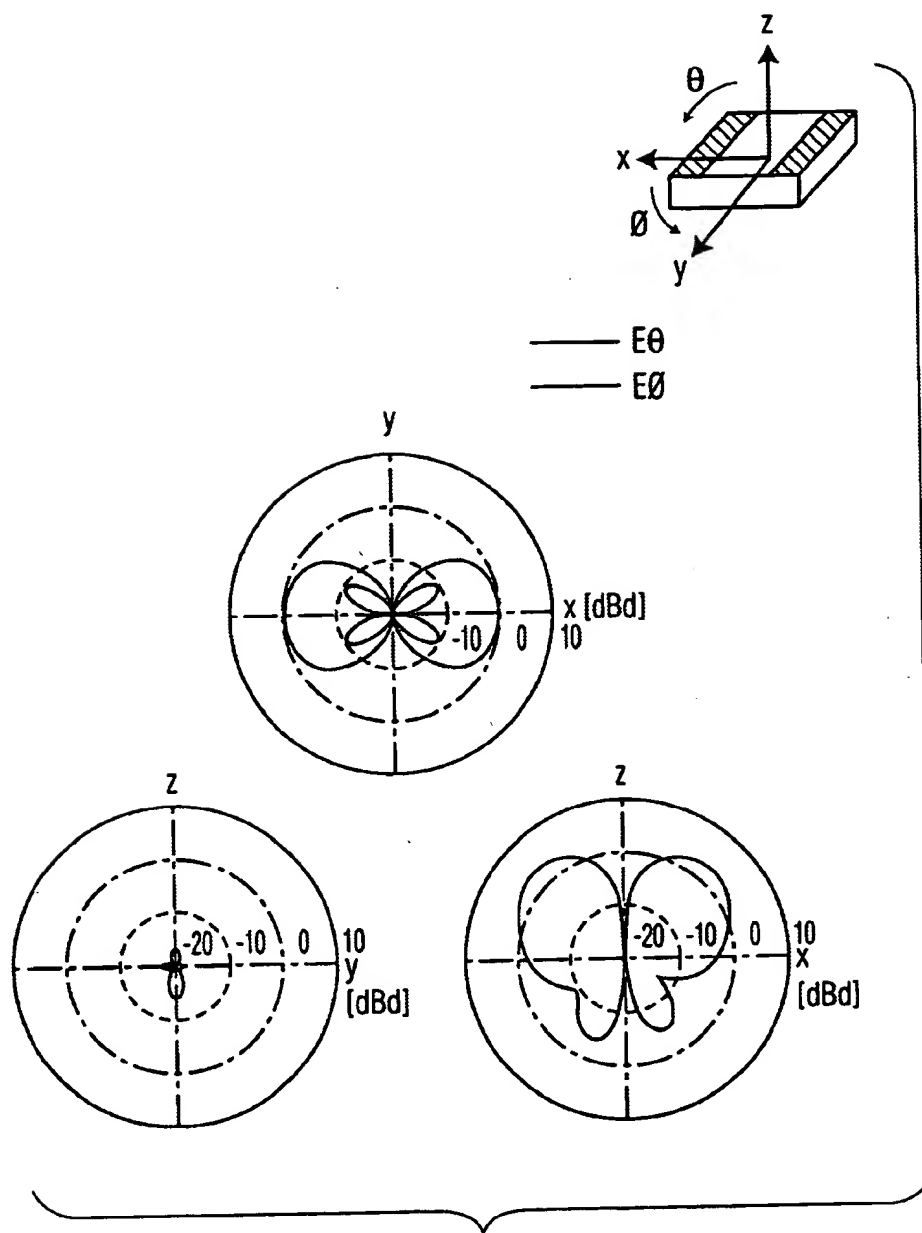


FIG. 4

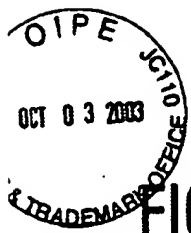
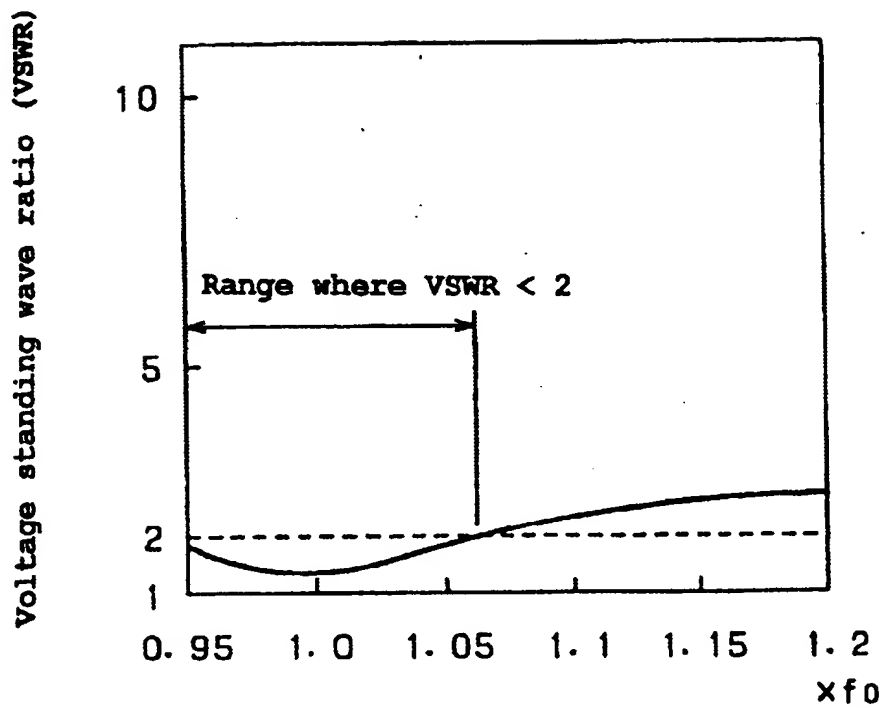


FIG. 5



Frequency (normalized by center frequency f_0)

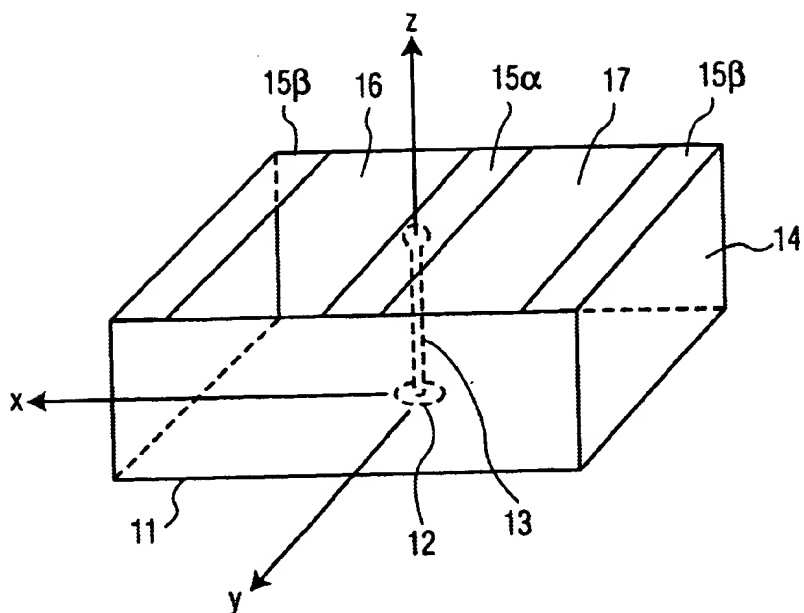


FIG. 6A

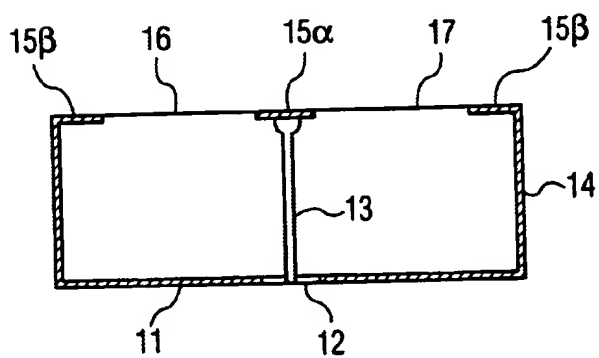
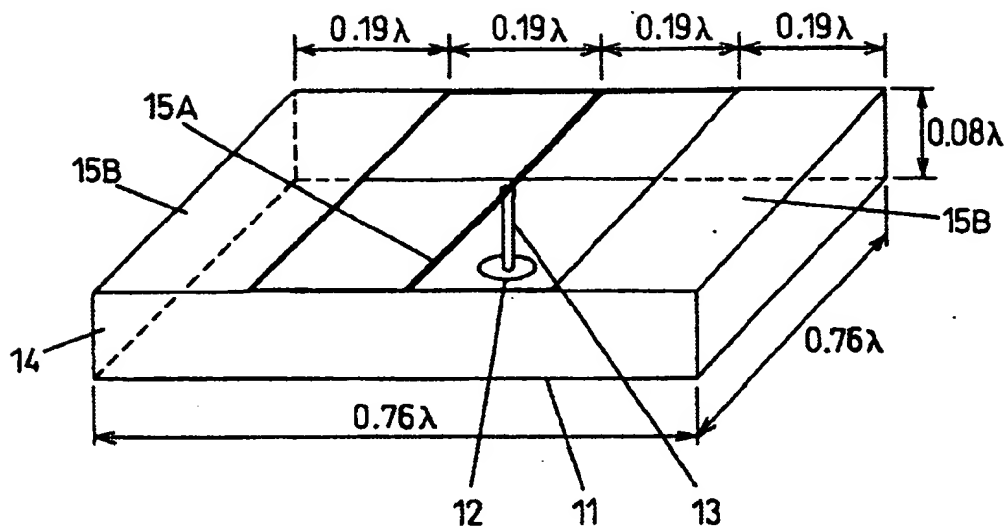
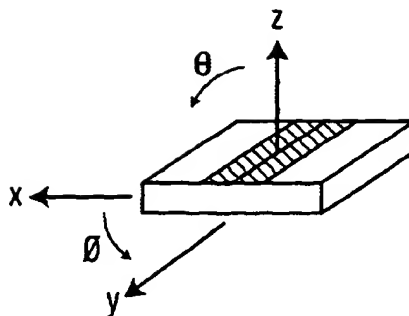


FIG. 6B

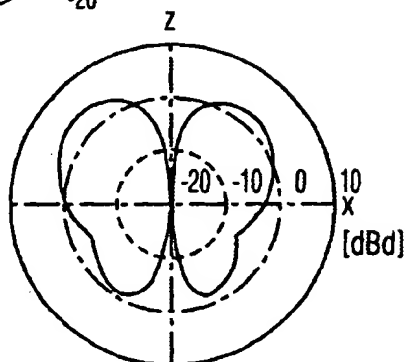
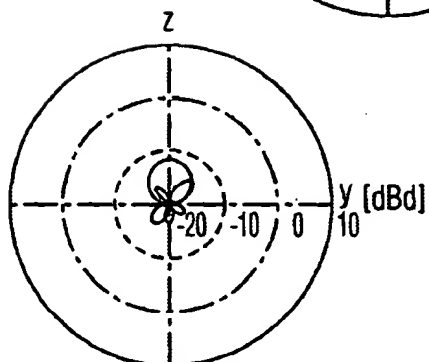
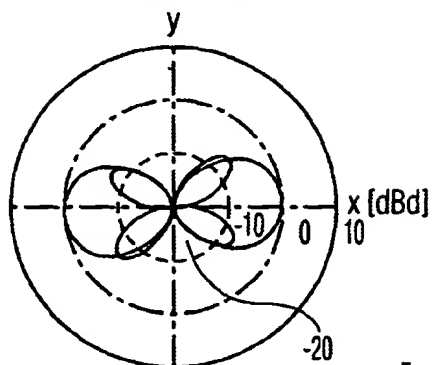
FIG. 7





— $E\theta$
 — $E\phi$

	MRG	PAG	FREQ	FILE
$E\theta$	0.21	-5.17	1930.	22. d
$E\phi$	-5.20	-10.56	1930.	23. d



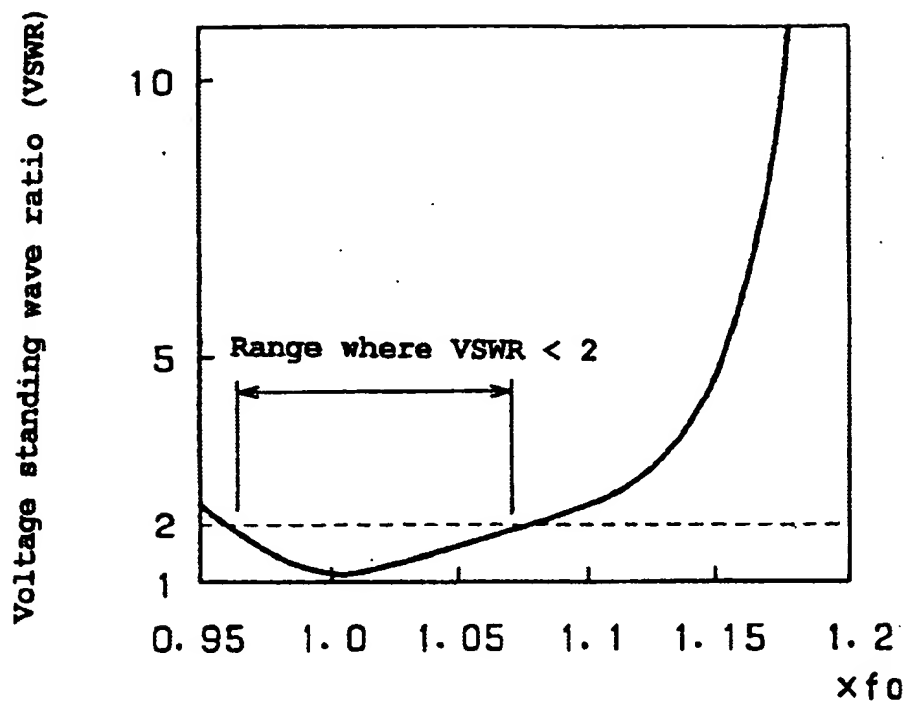
	MRG	PAG	FREQ	FILE
$E\theta$	-13.80	-17.49	1930.	27. d
$E\phi$	-11.39	-15.56	1930.	26. d

	MRG	PAG	FREQ	FILE
$E\theta$	4.80	0.16	1930.	25. d
$E\phi$	-18.39	-20.13	1930.	24. d

FIG. 8



FIG. 9



Frequency (normalized by center frequency f_0)

FIG. 10A

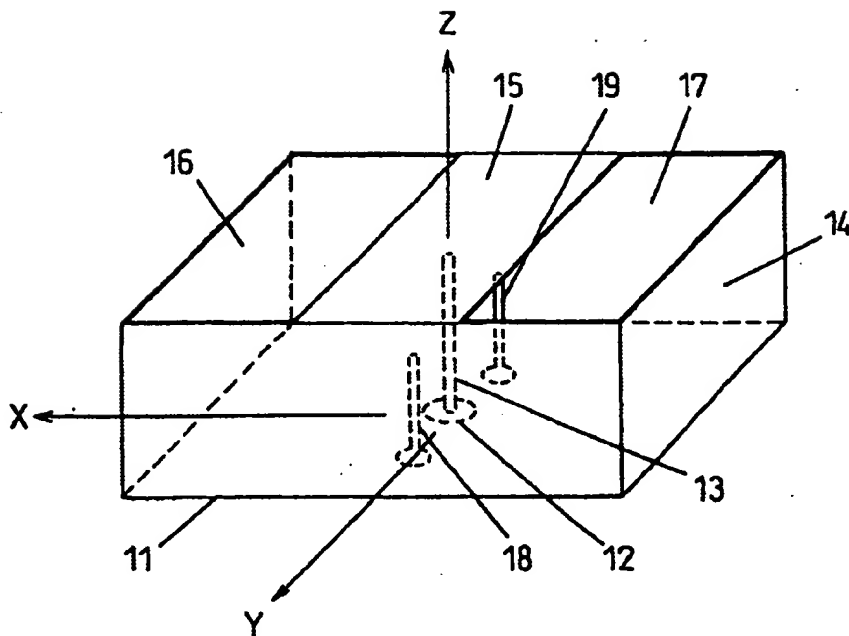


FIG. 10B

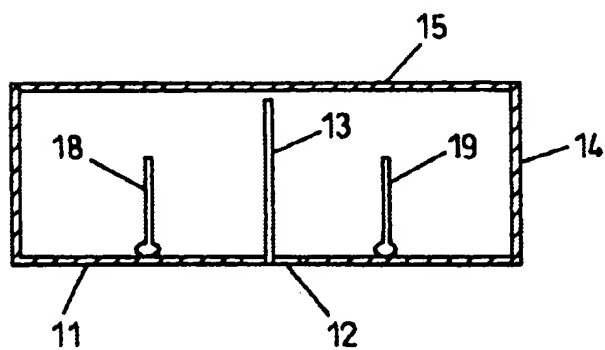


FIG. 11A

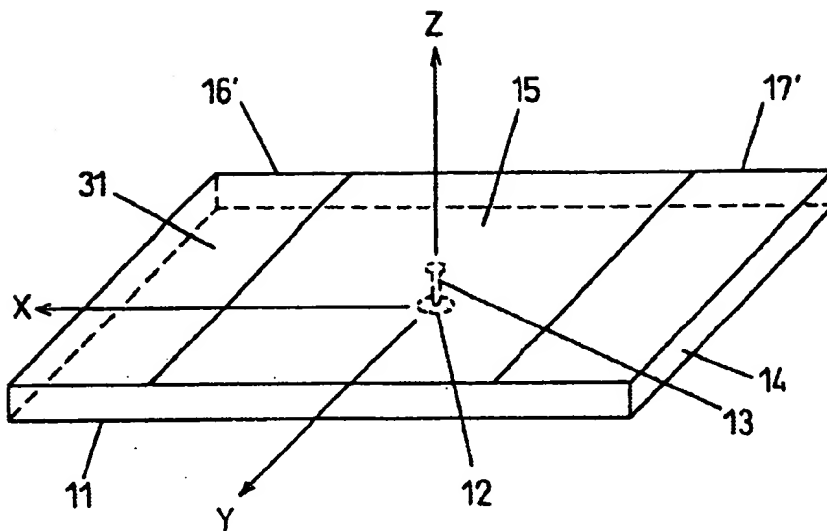
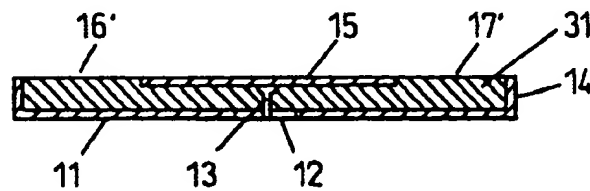


FIG. 11B



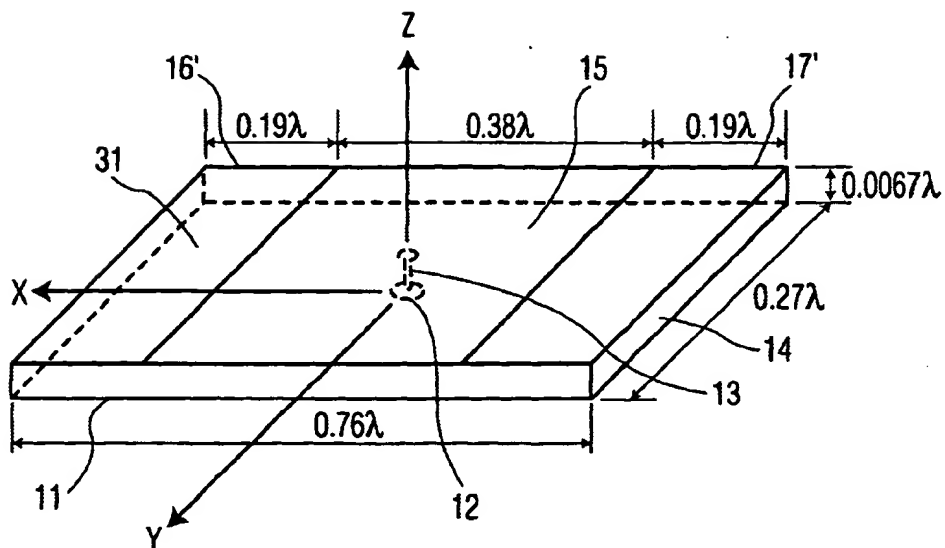


FIG. 12

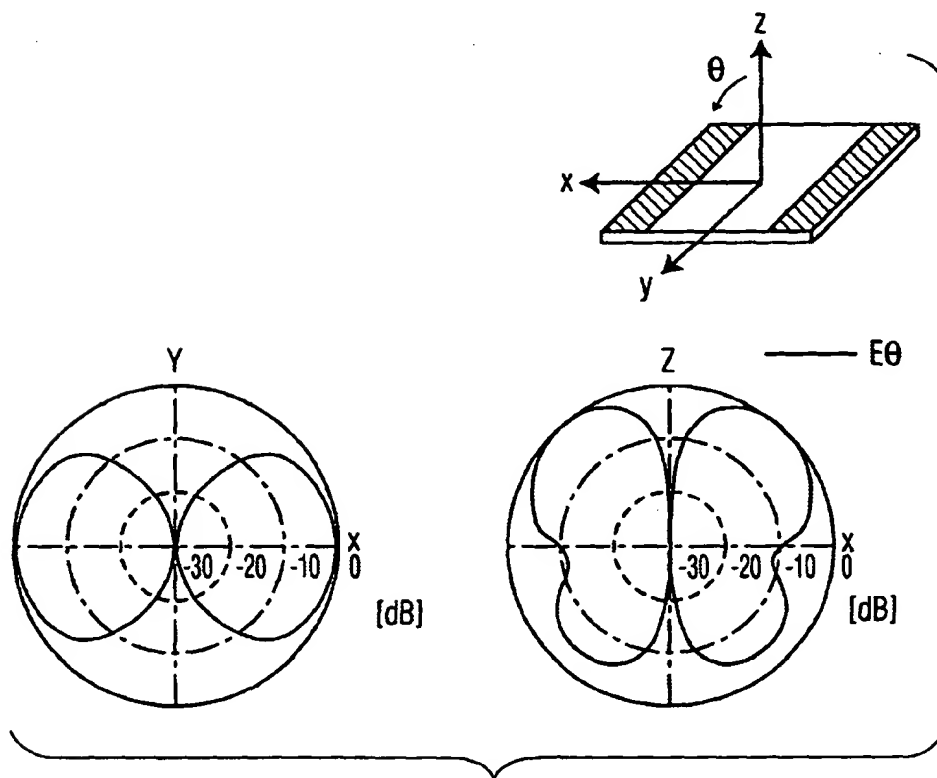


FIG. 13

FIG. 14

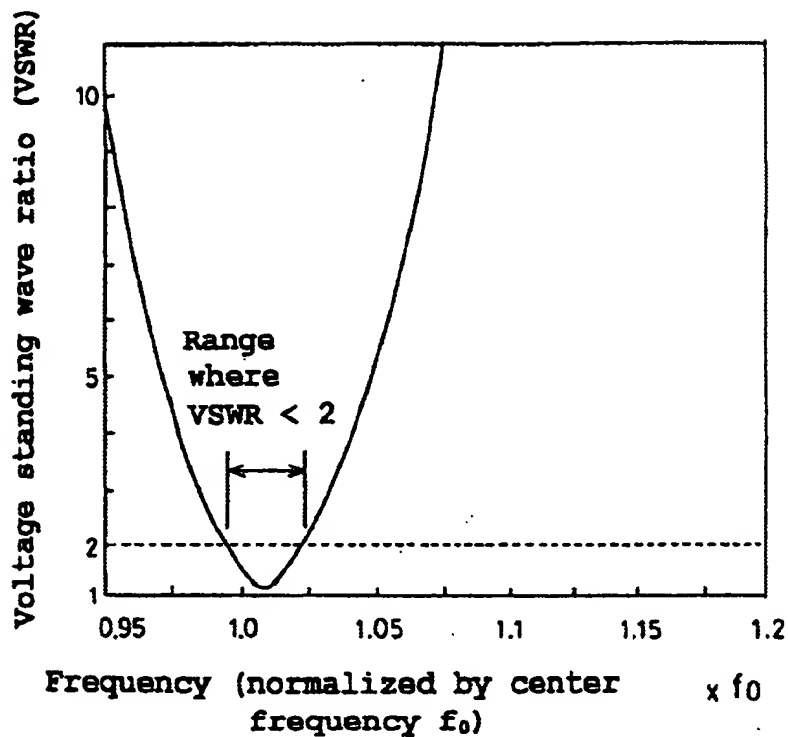


FIG. 15

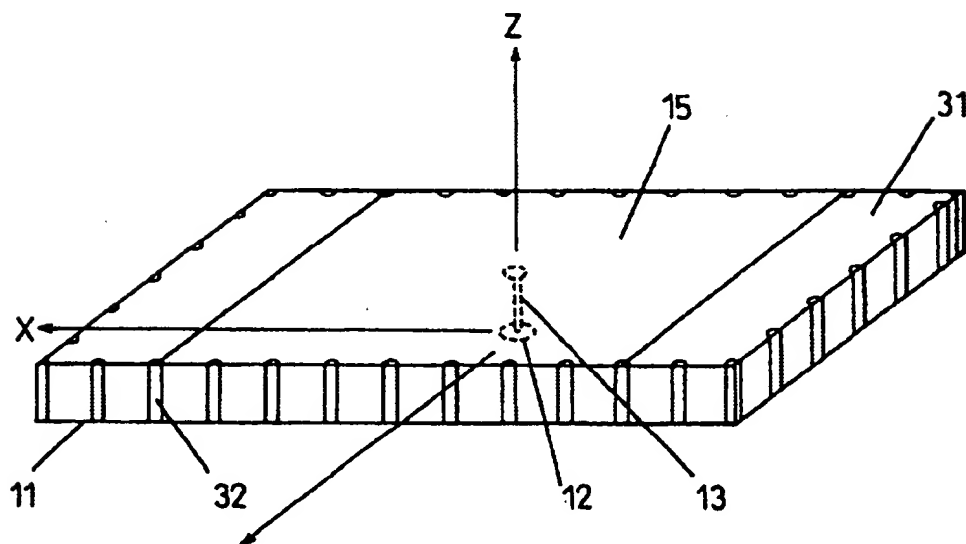


FIG. 16A

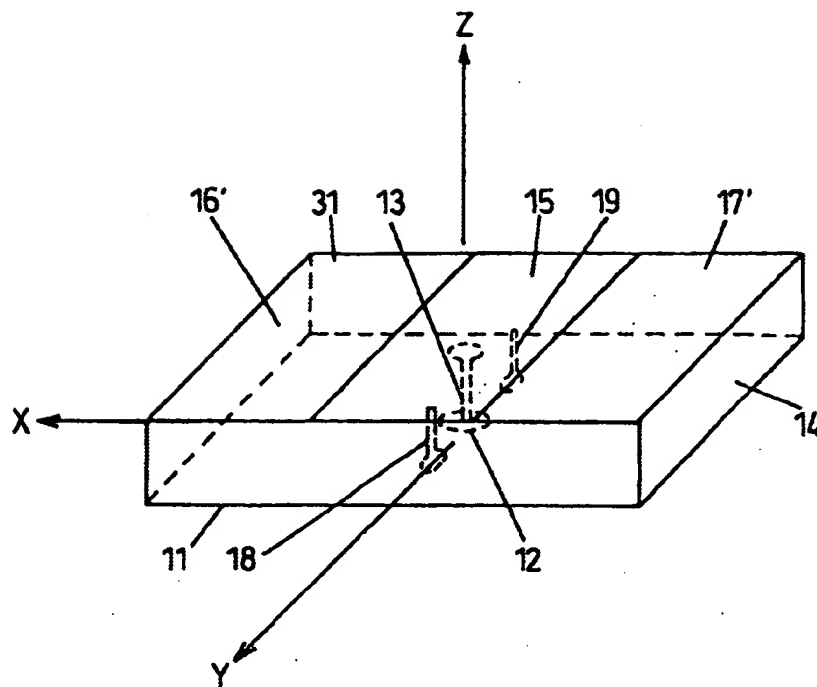


FIG. 16B

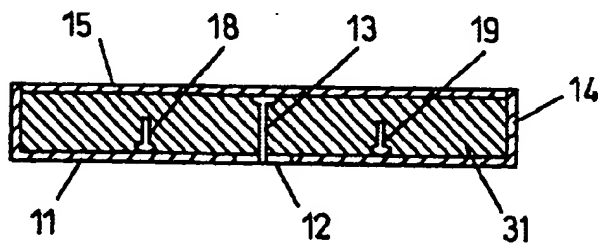


FIG. 17A

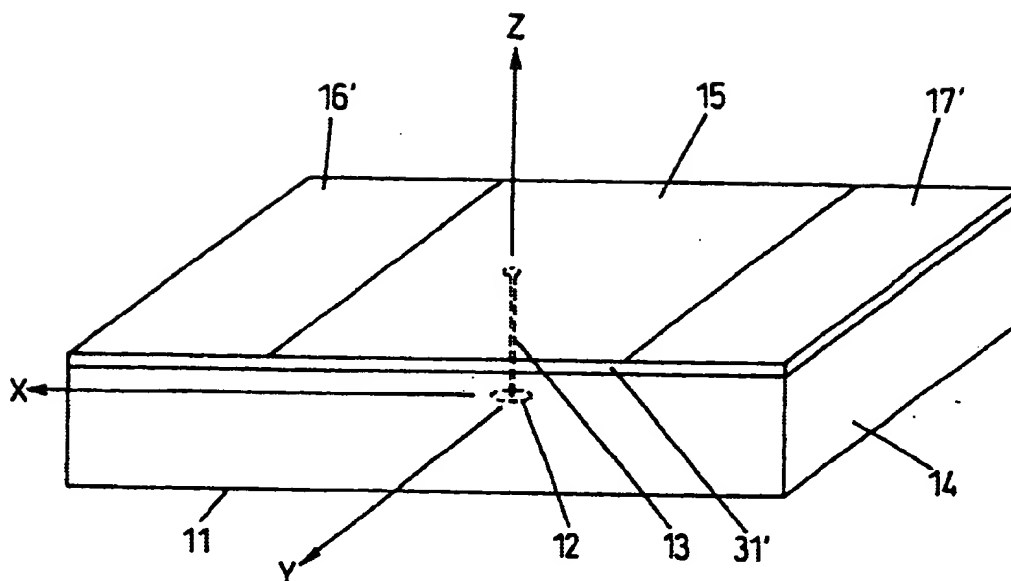


FIG. 17B

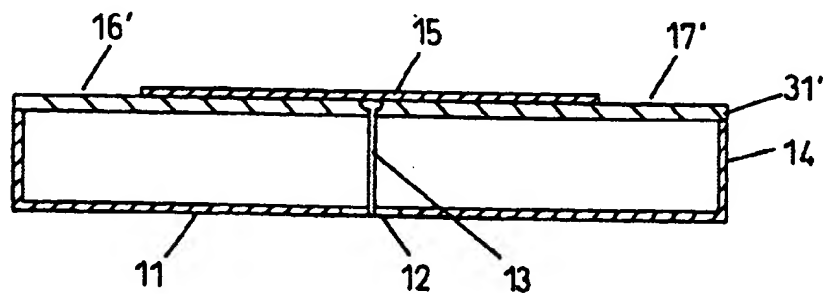


FIG. 18A

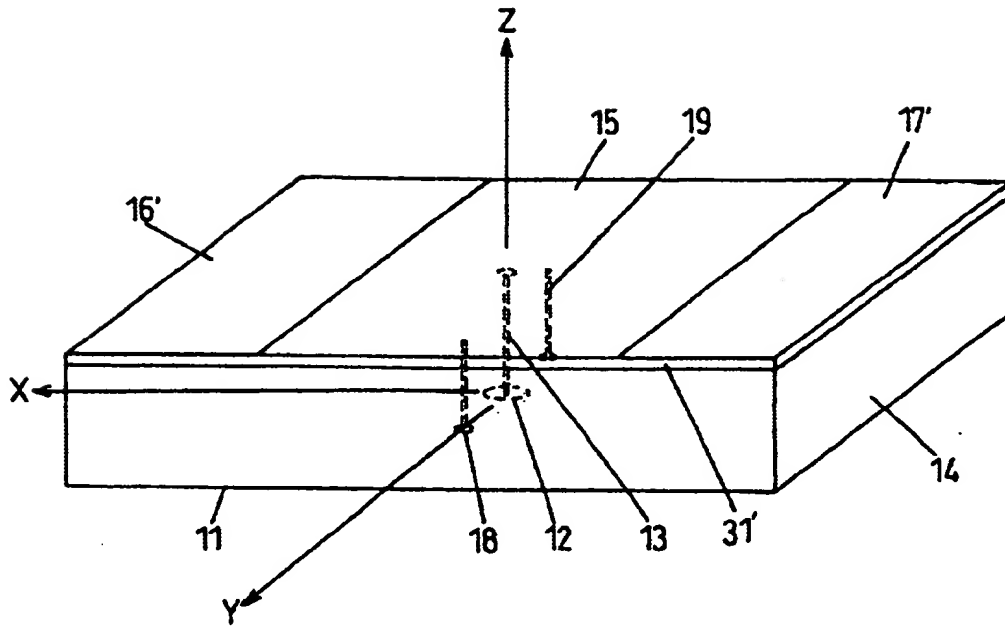
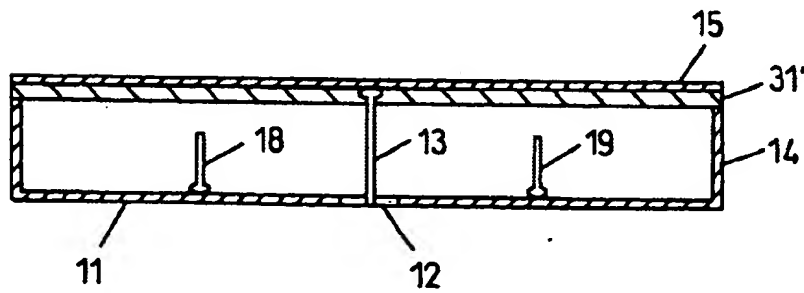


FIG. 18B



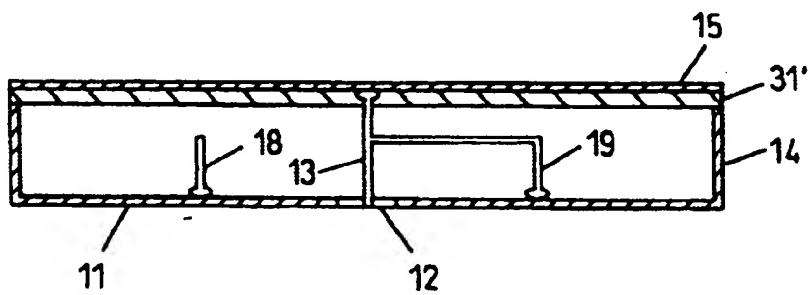
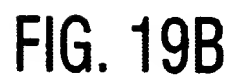
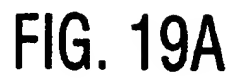




FIG. 20A

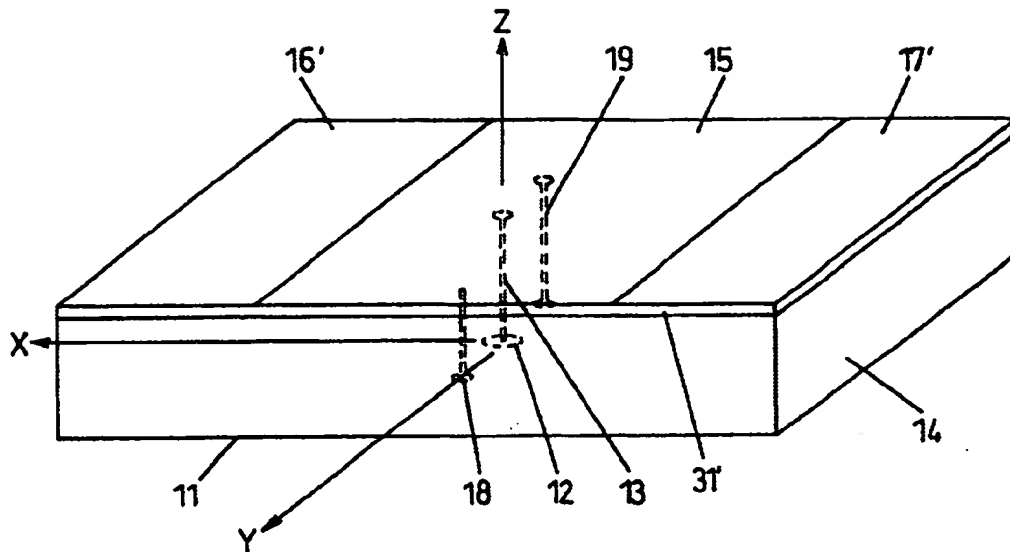
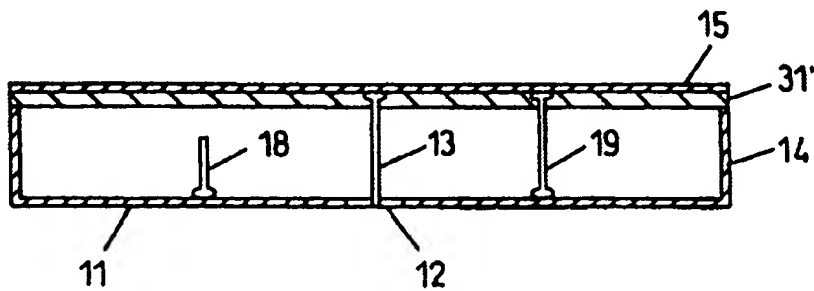


FIG. 20B



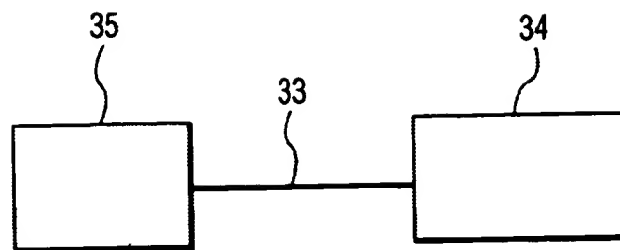


FIG. 21

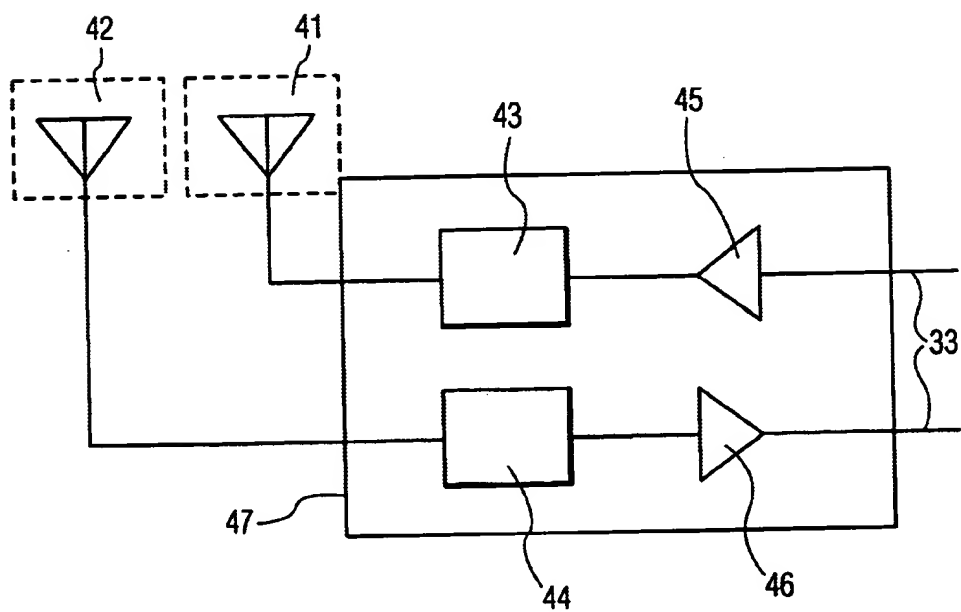
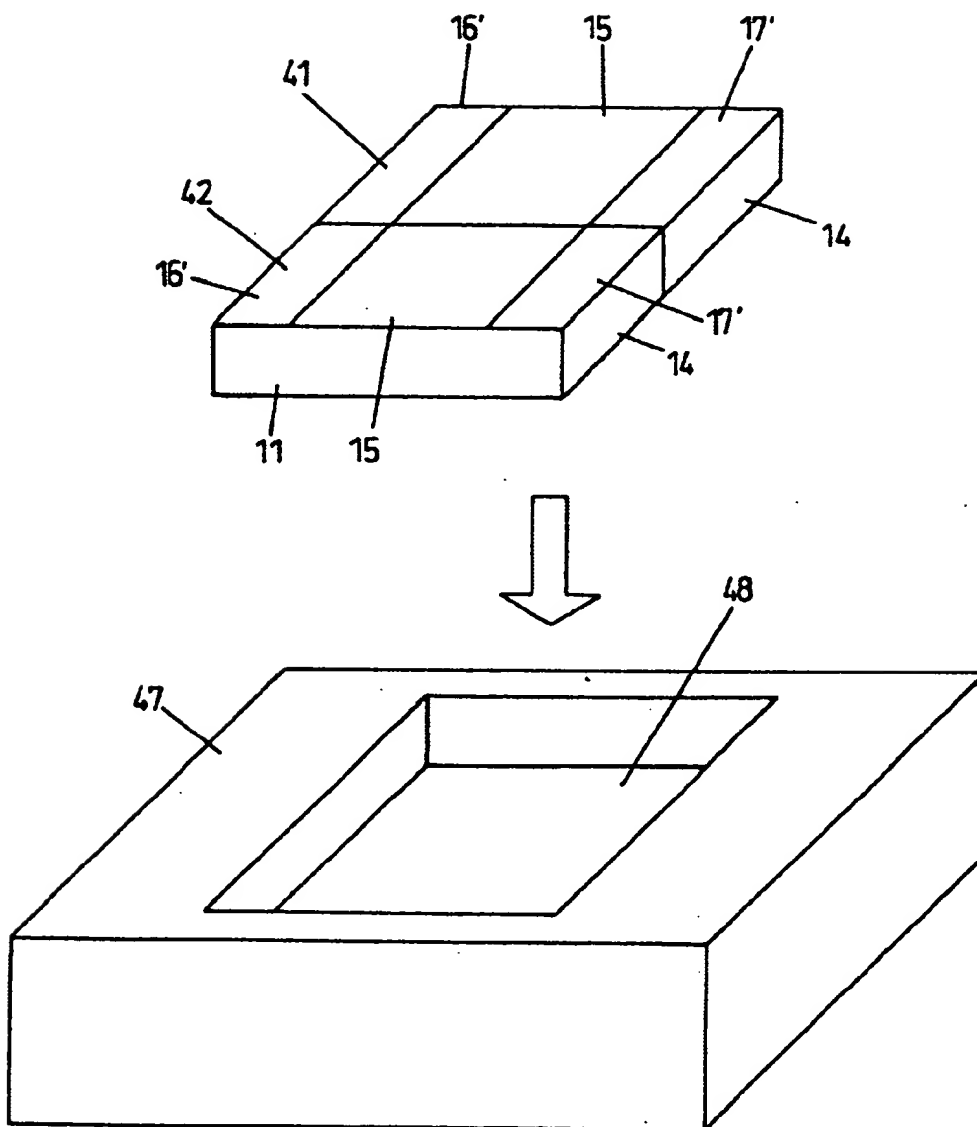


FIG. 22

FIG. 23



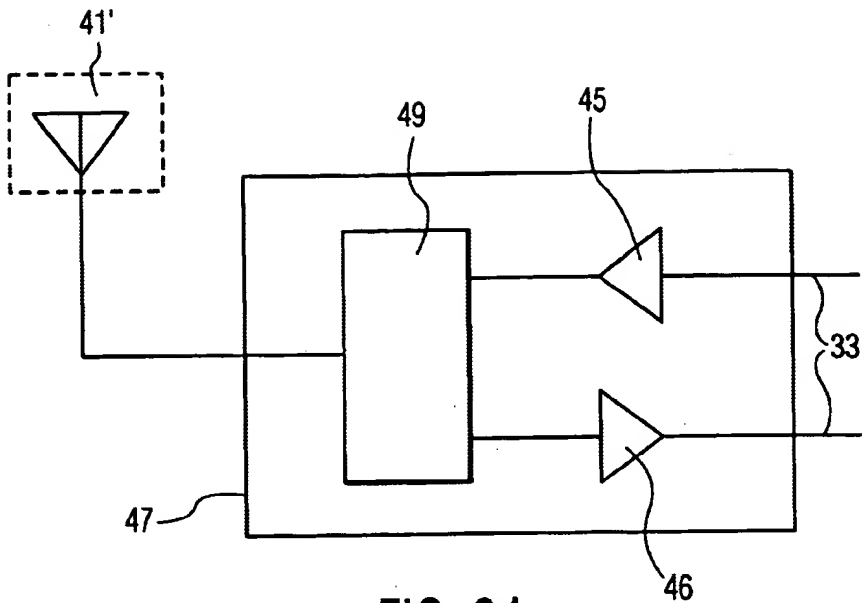


FIG. 24

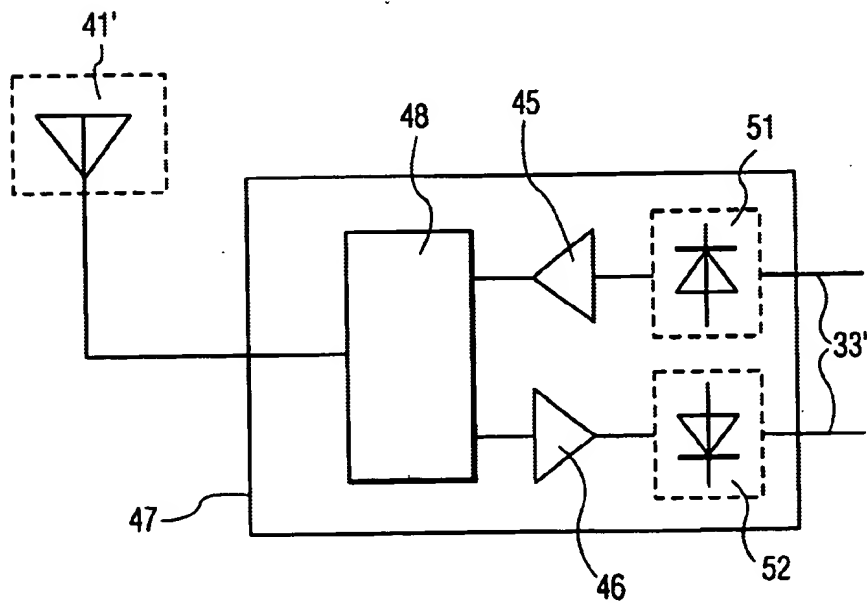


FIG. 25

FIG. 26

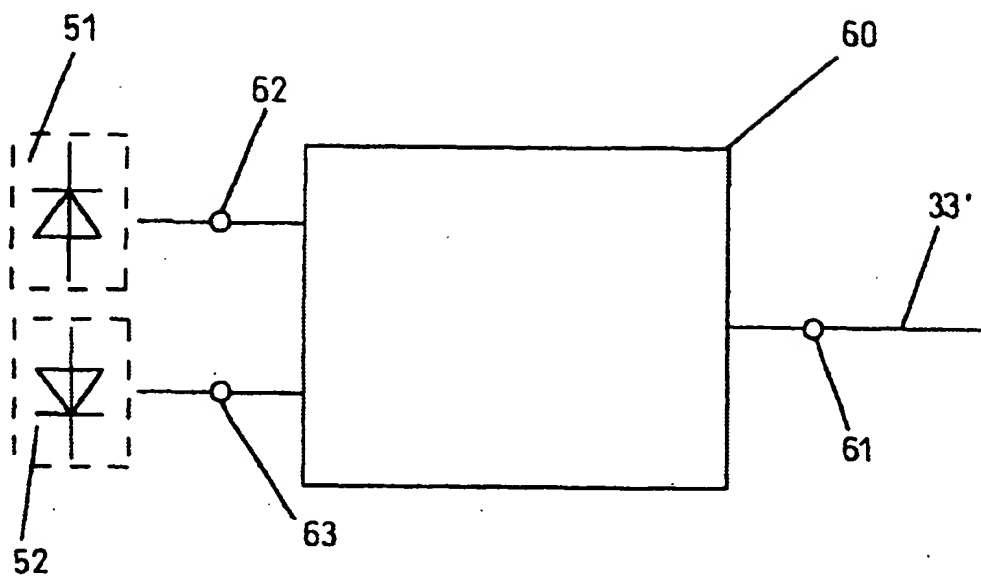


FIG. 27

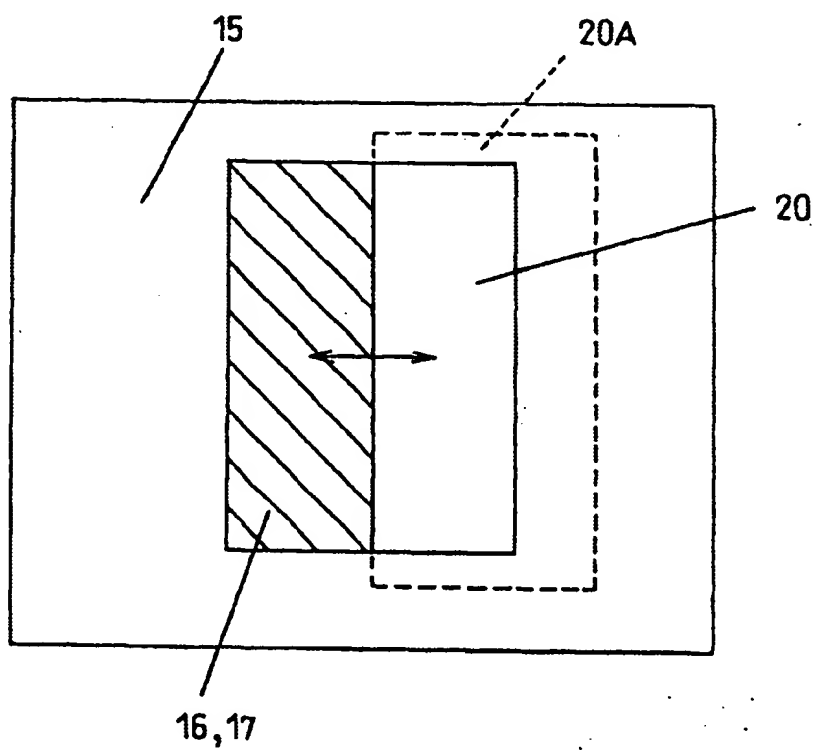


FIG. 28A

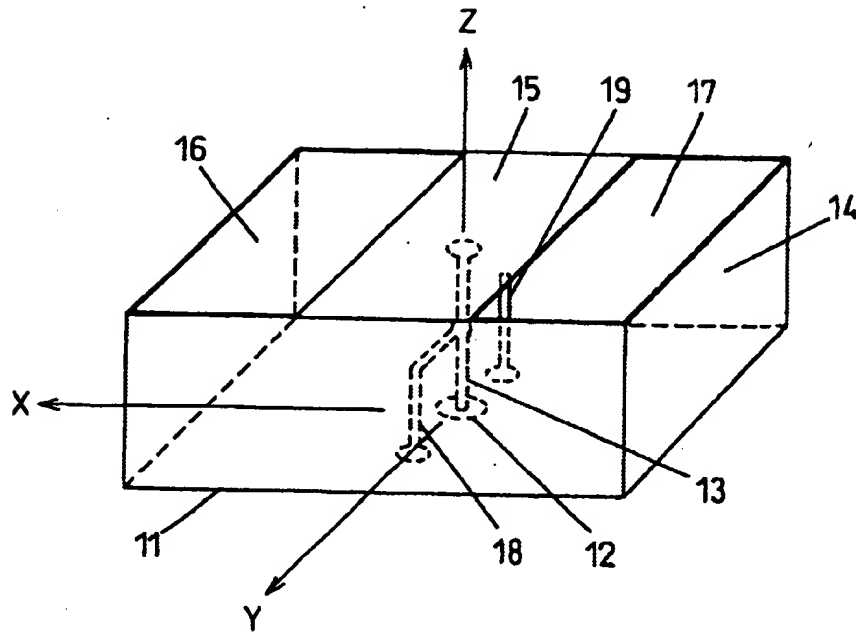


FIG. 28B

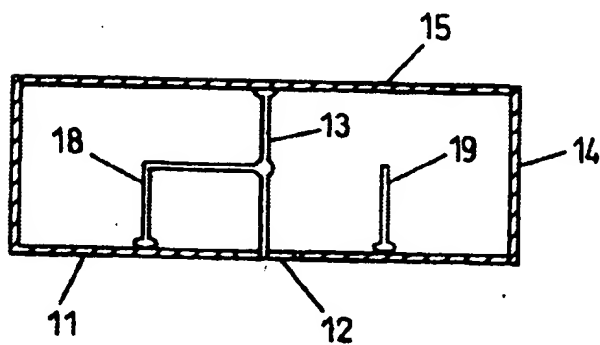


FIG. 29A

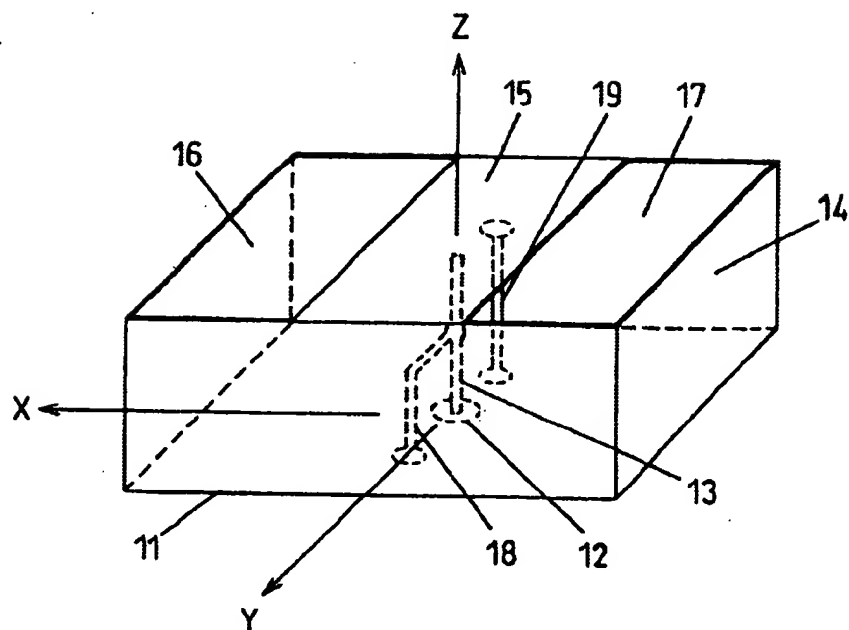
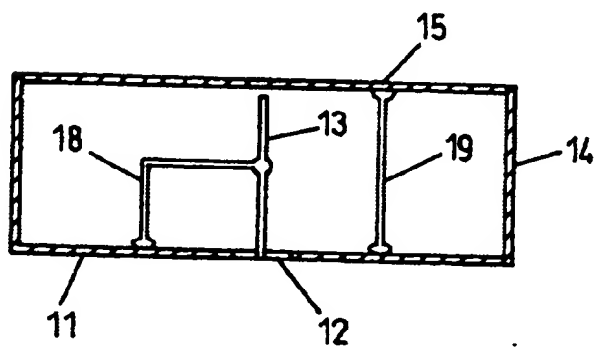


FIG. 29B



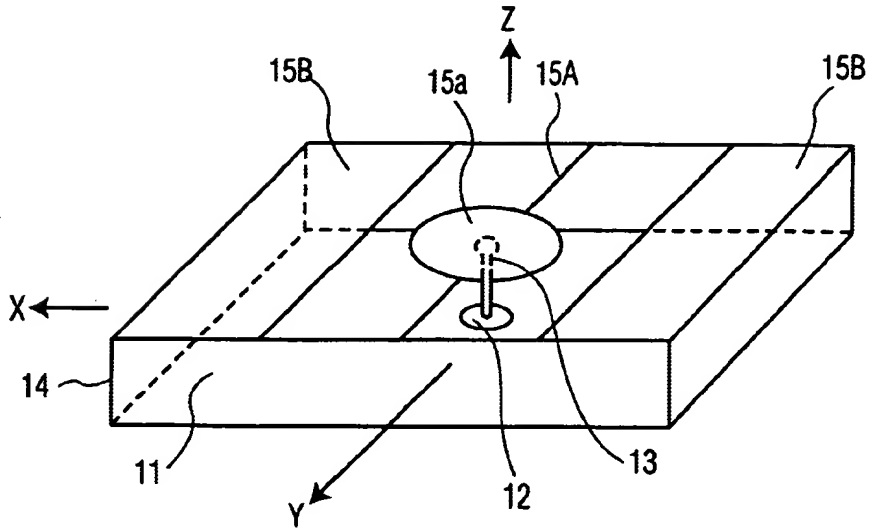
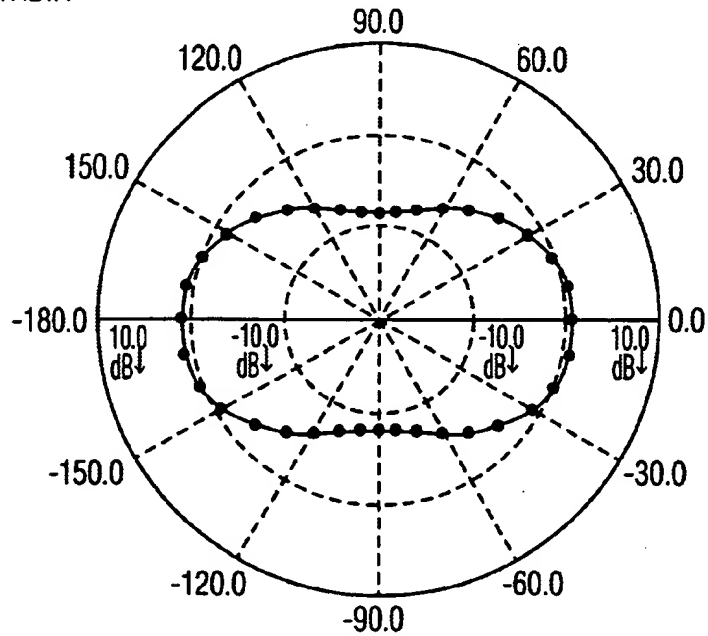


FIG. 30

→ E_{THETA}, THETA=90 (DEG)



POLAR AZIMUTH PATTERN

FIG. 31

FIG. 32

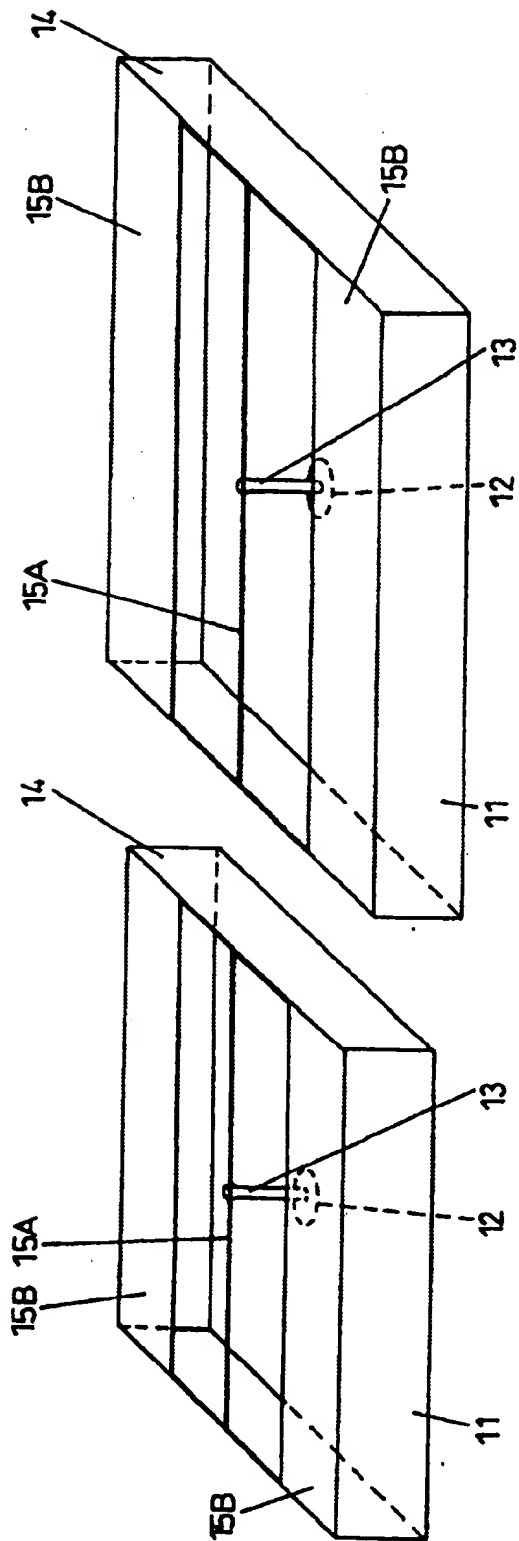


FIG. 33

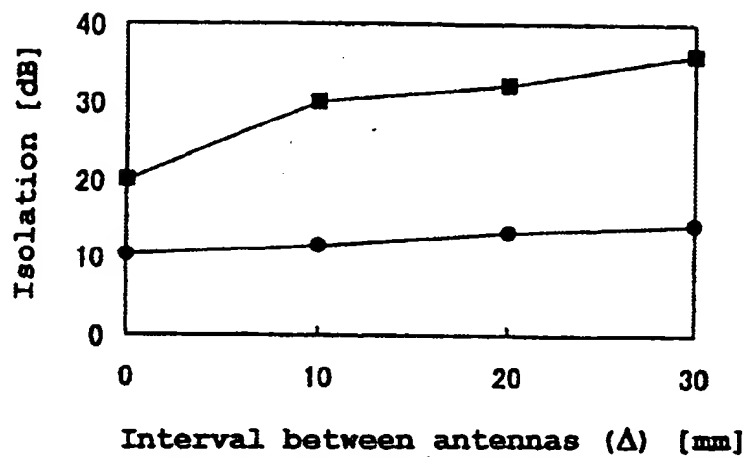


FIG. 34

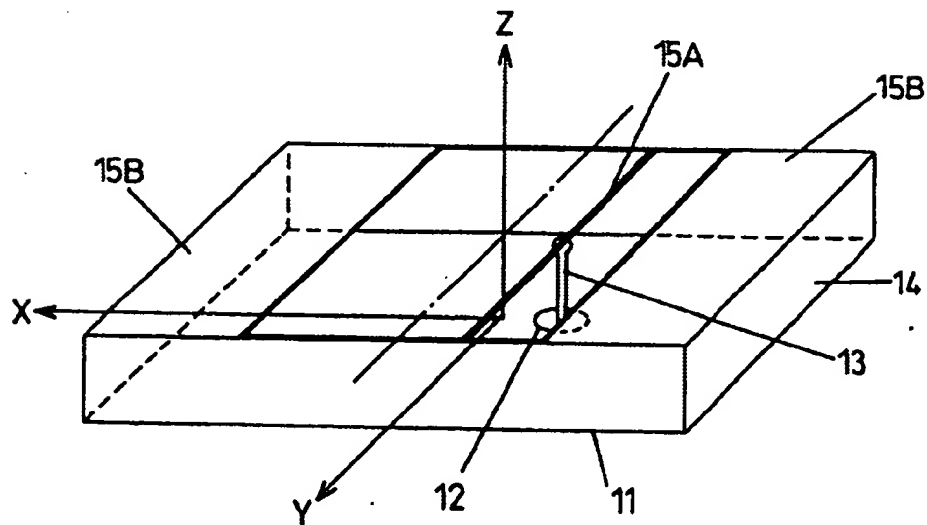


FIG. 35

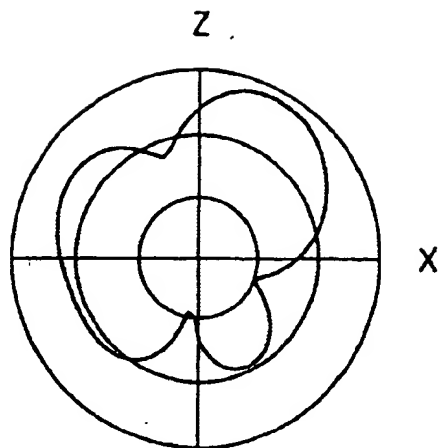
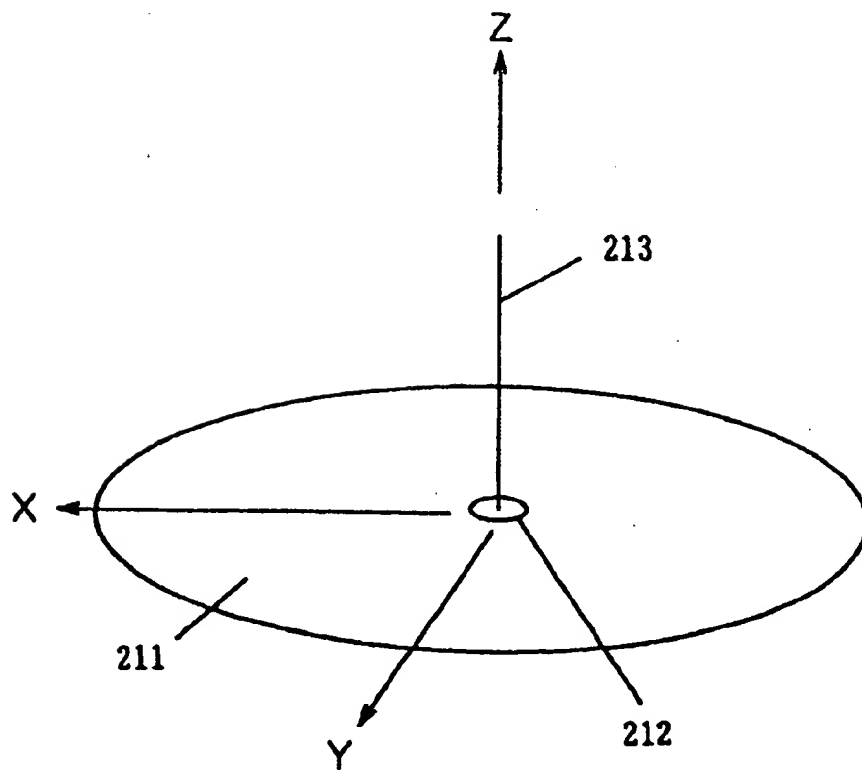


FIG. 36



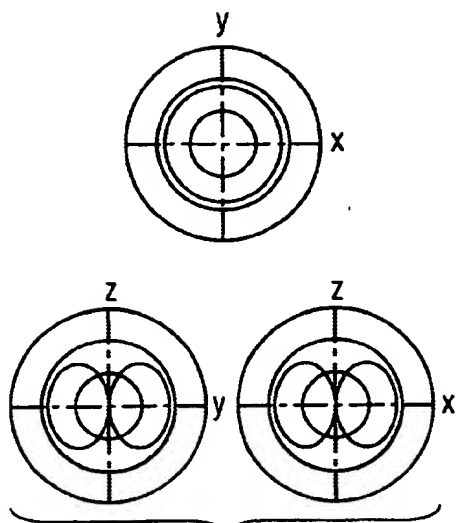


FIG. 37A

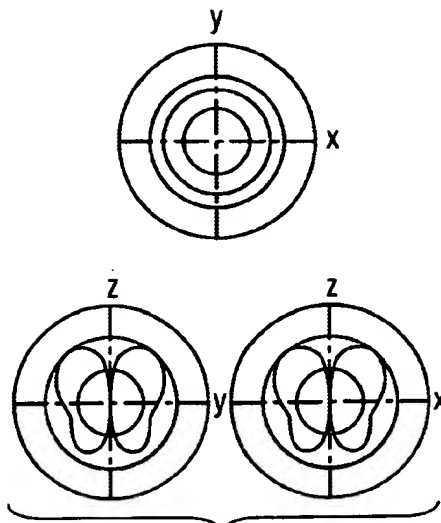


FIG. 37B

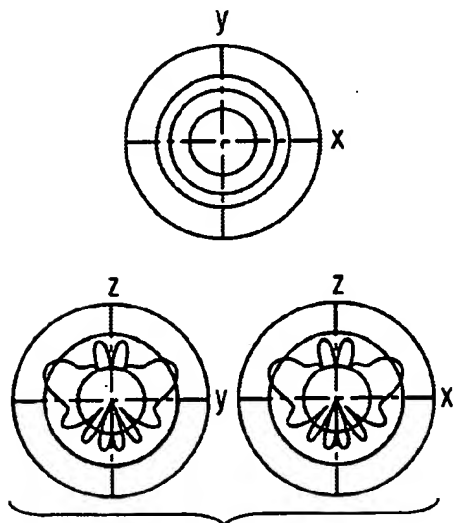


FIG. 37C

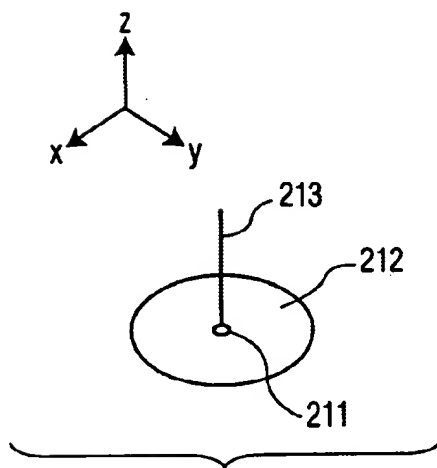
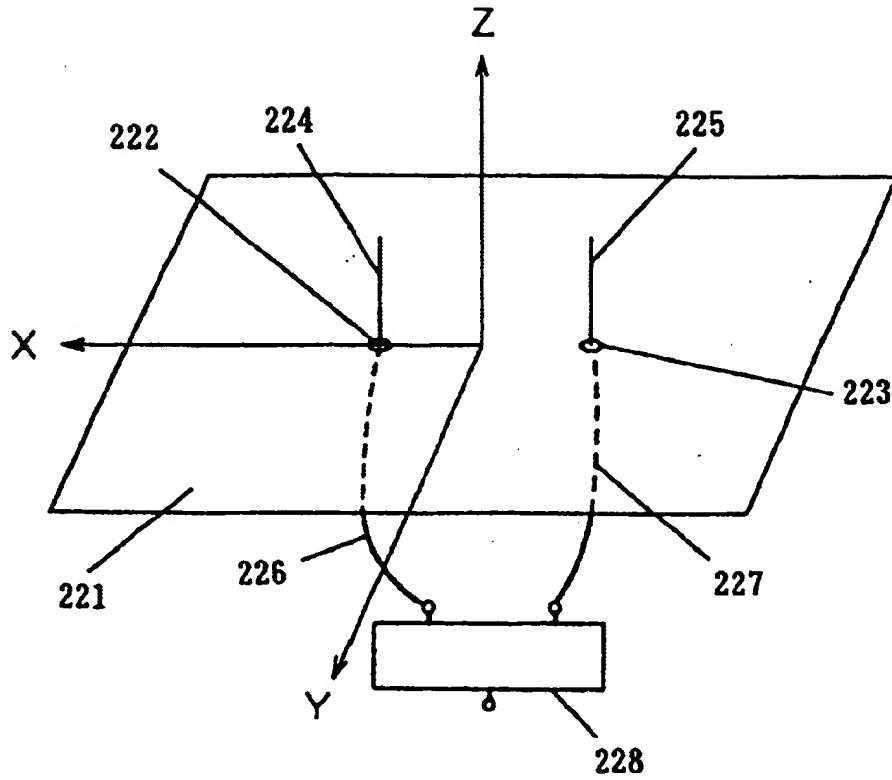


FIG. 37D

FIG. 38



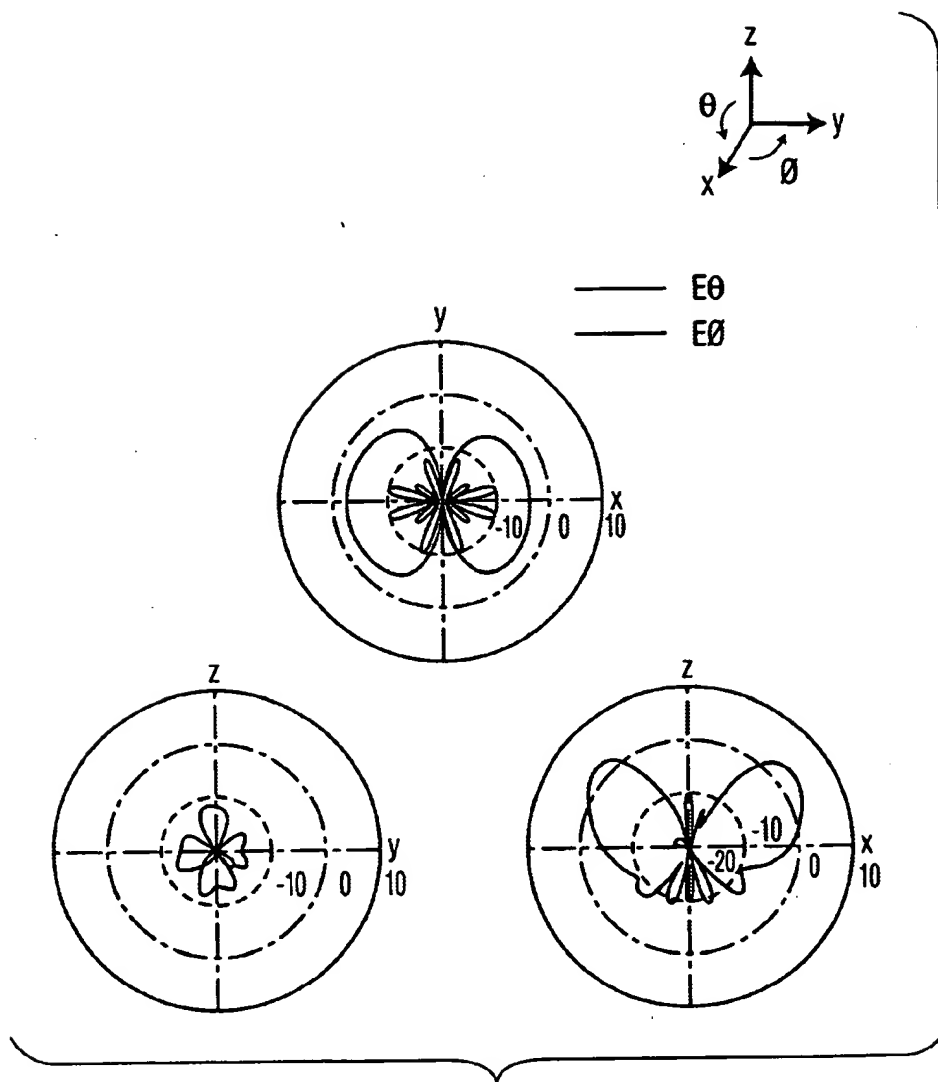


FIG. 39

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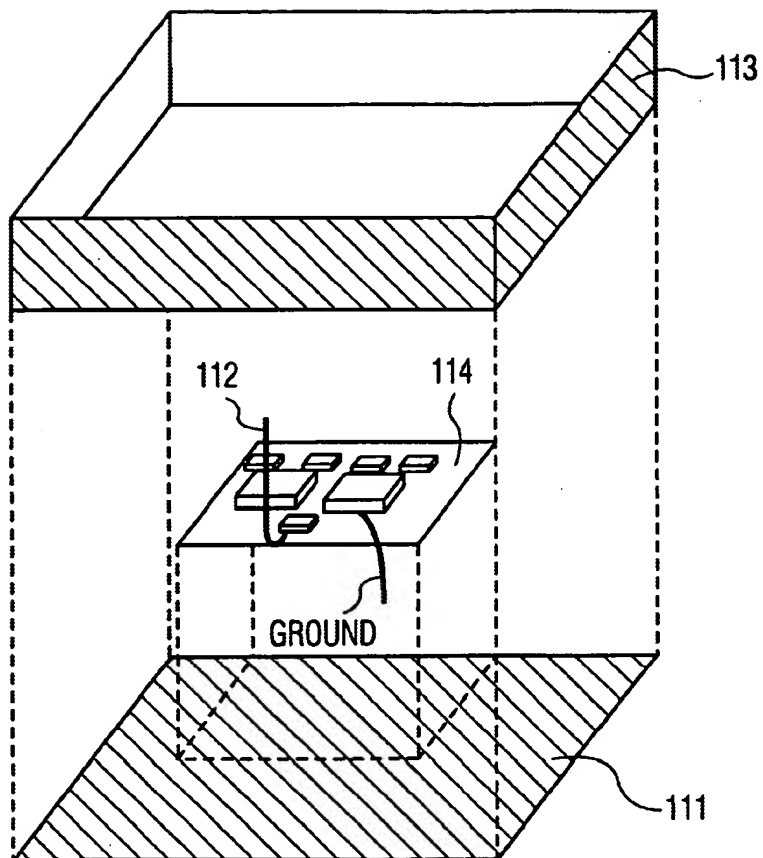


FIG. 40

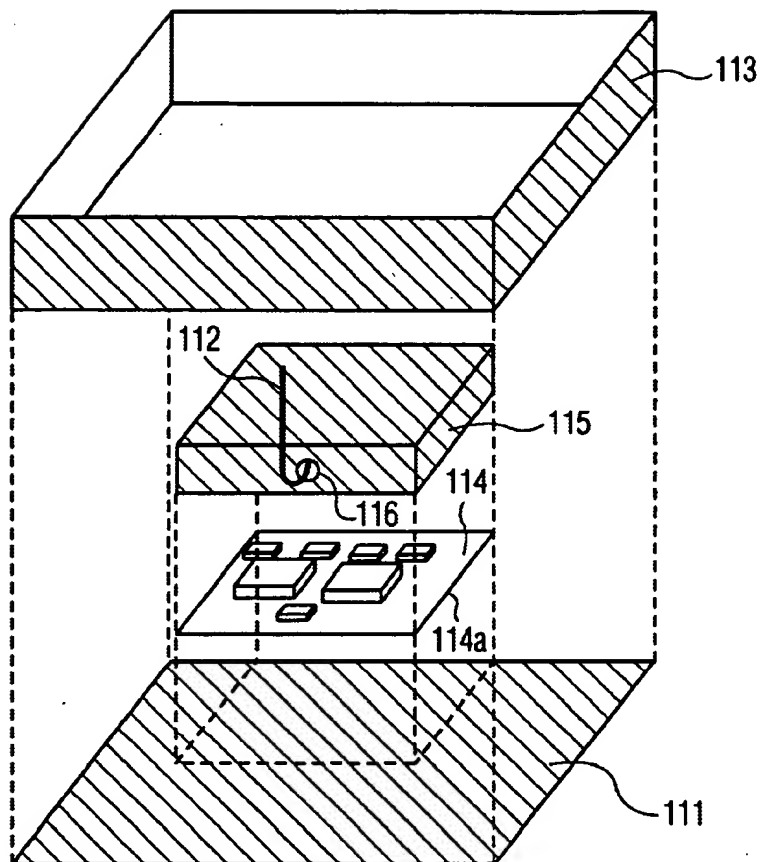


FIG. 41

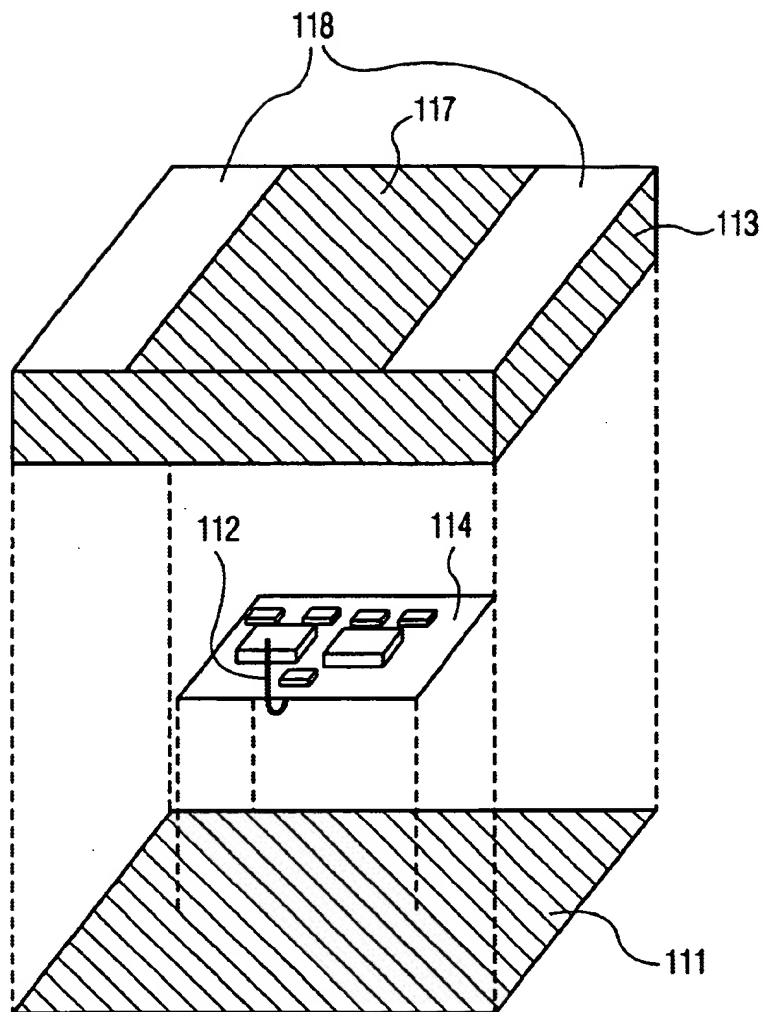


FIG. 42

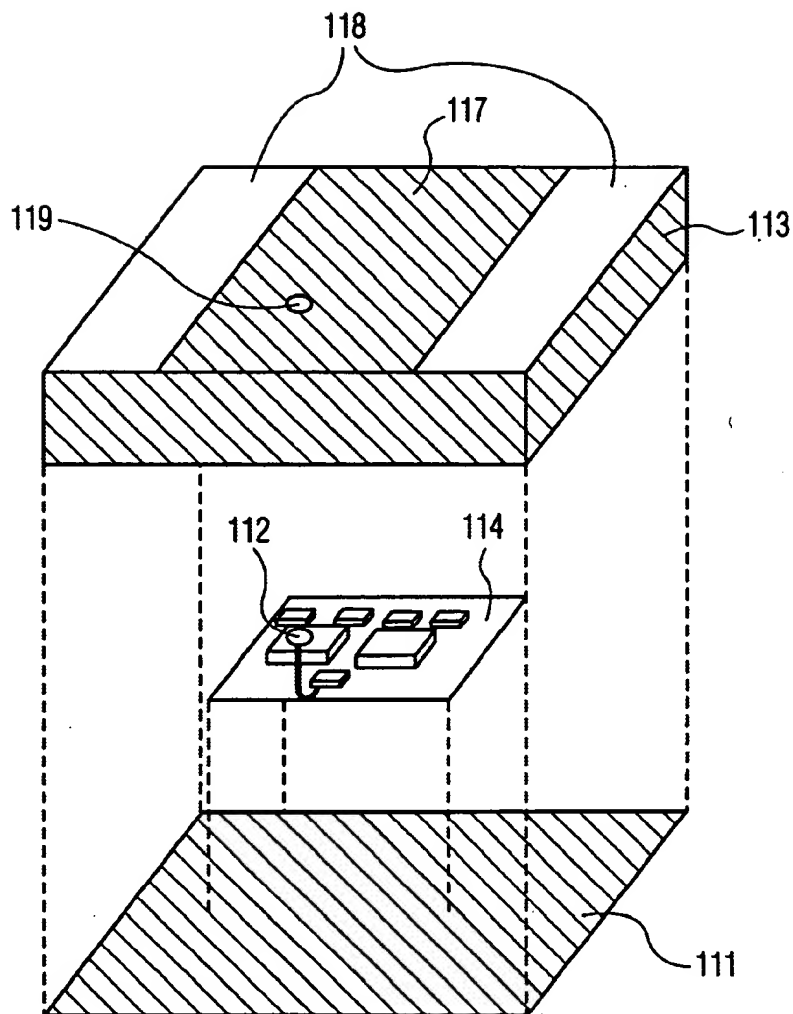


FIG. 43

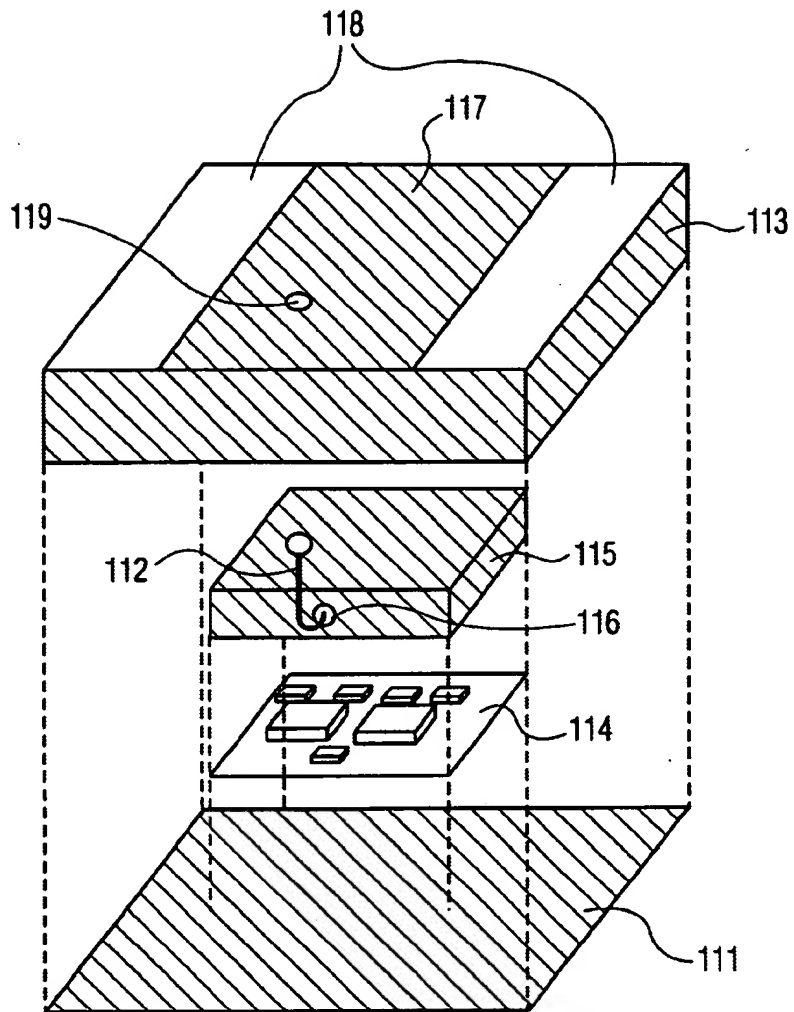


FIG. 44

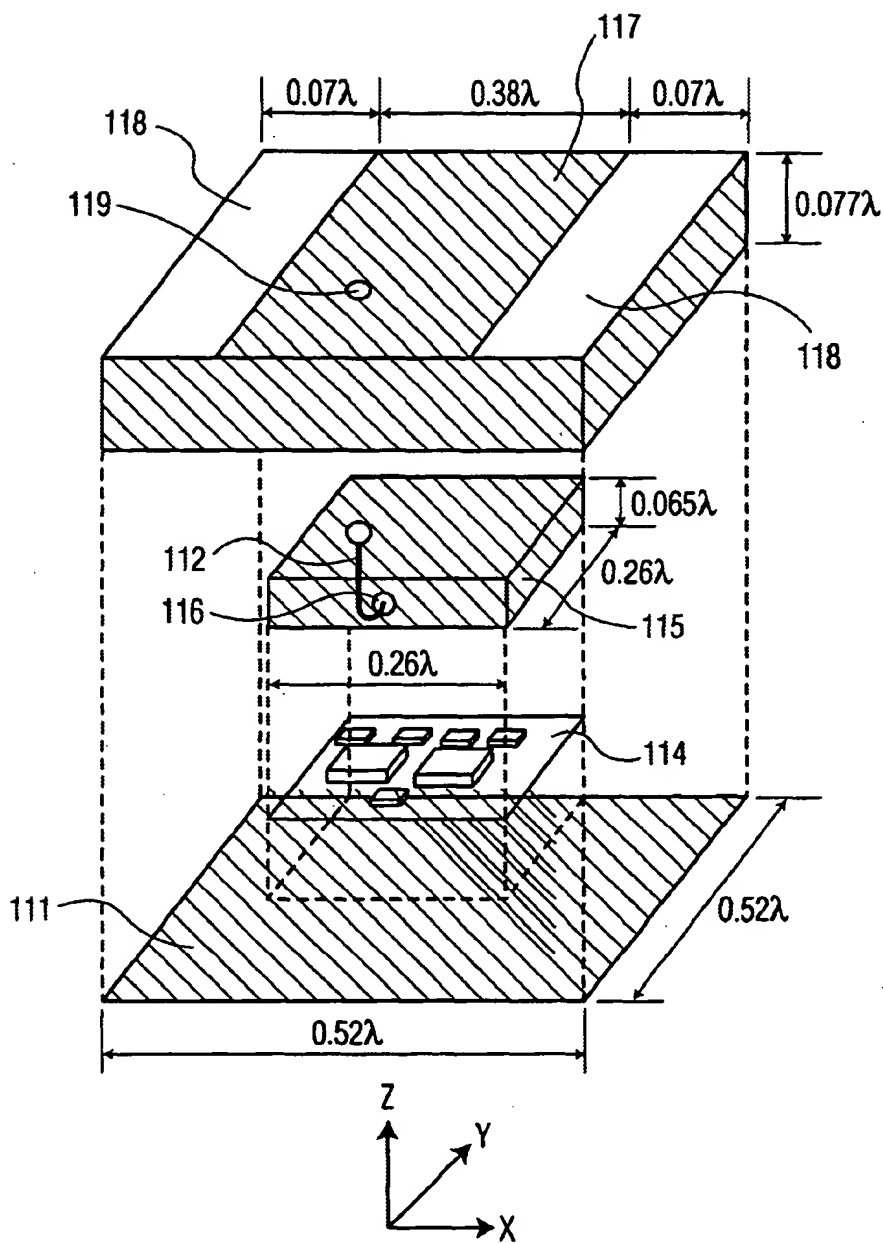


FIG. 45



FIG. 46

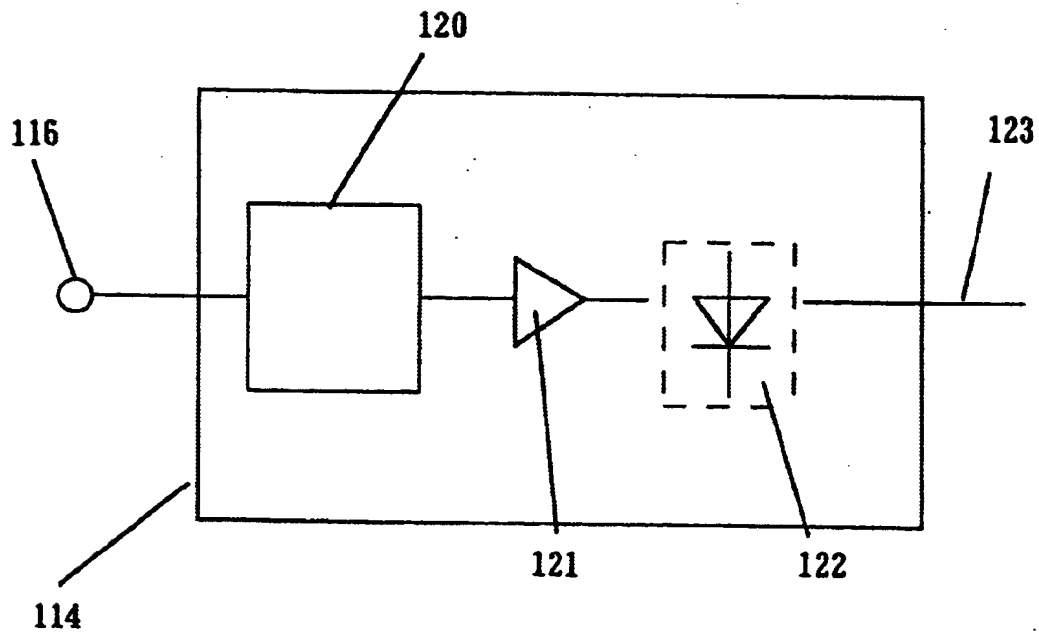
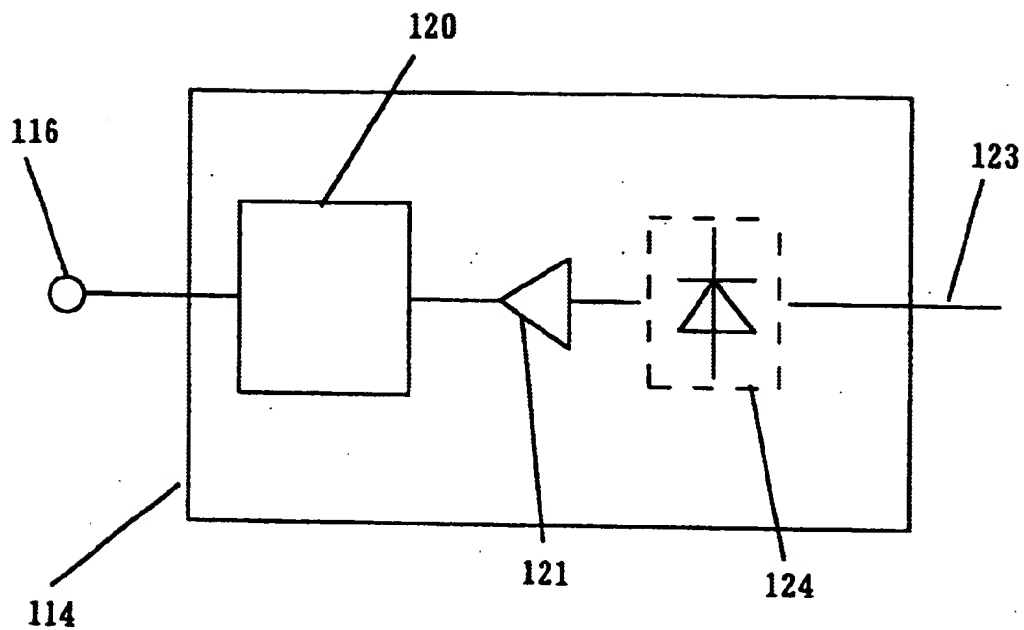




FIG. 47



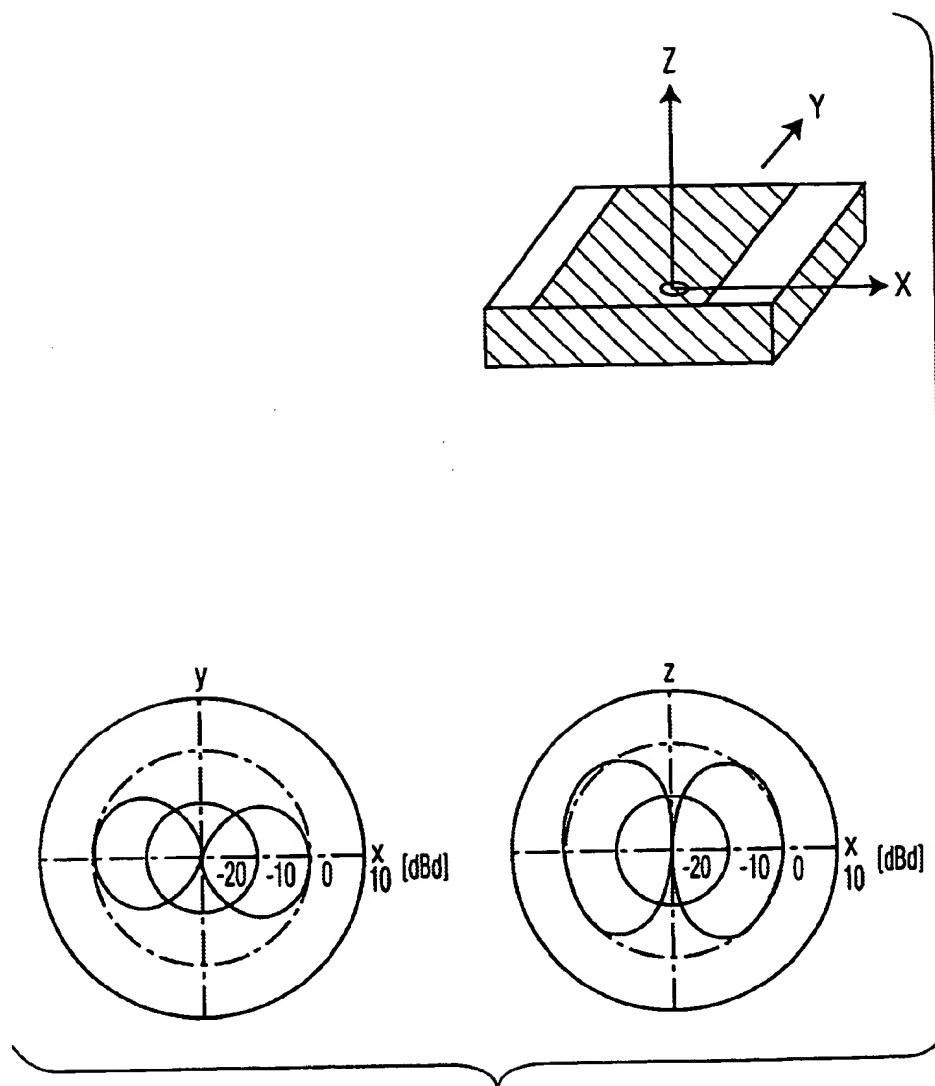


FIG. 48

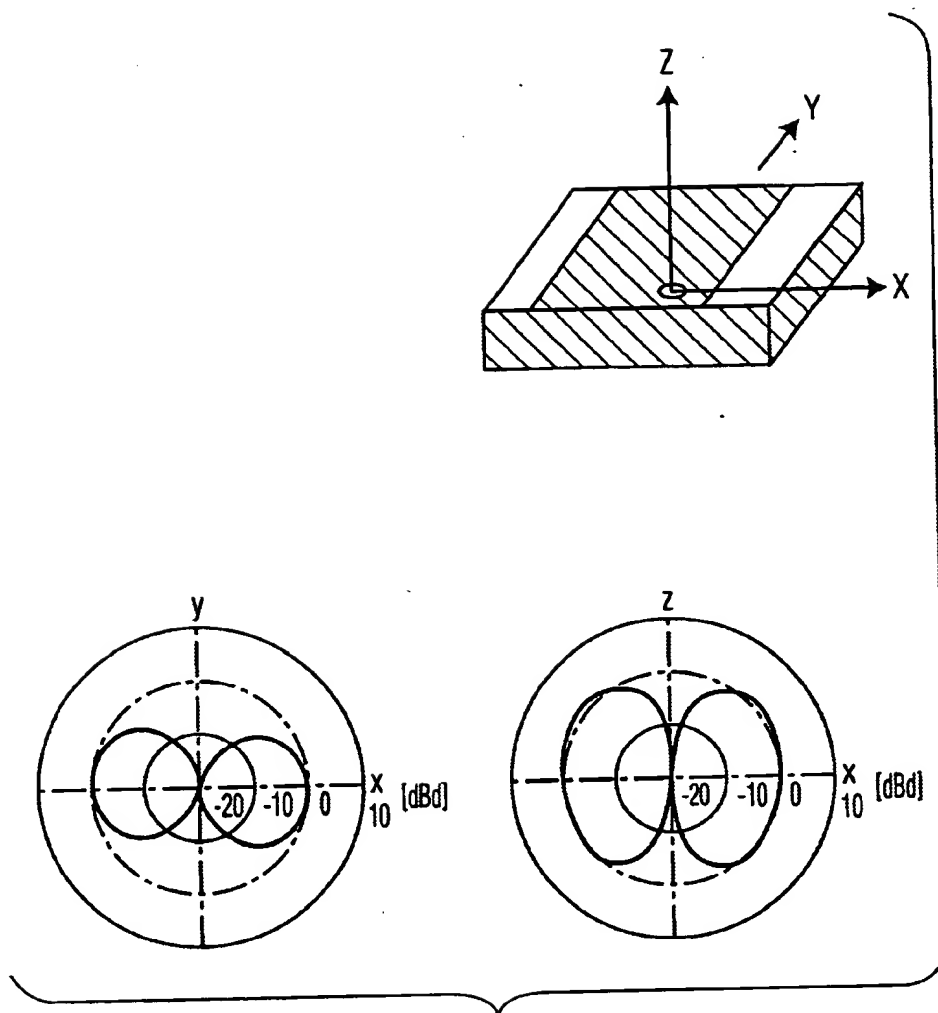
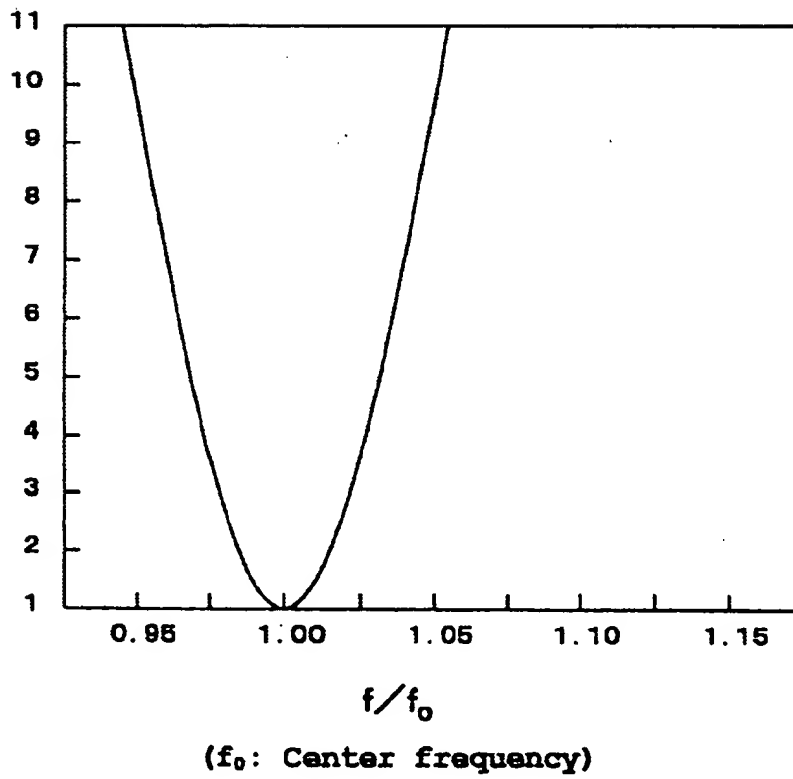


FIG. 49



FIG. 50



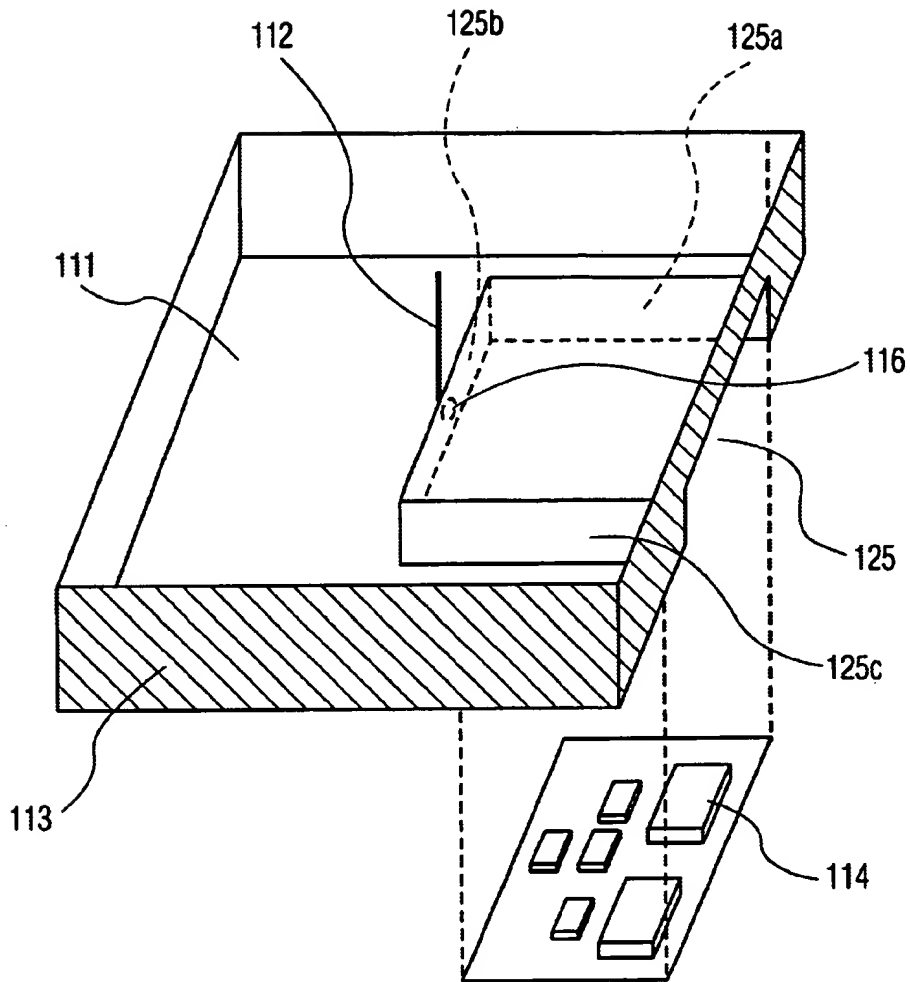


FIG. 51

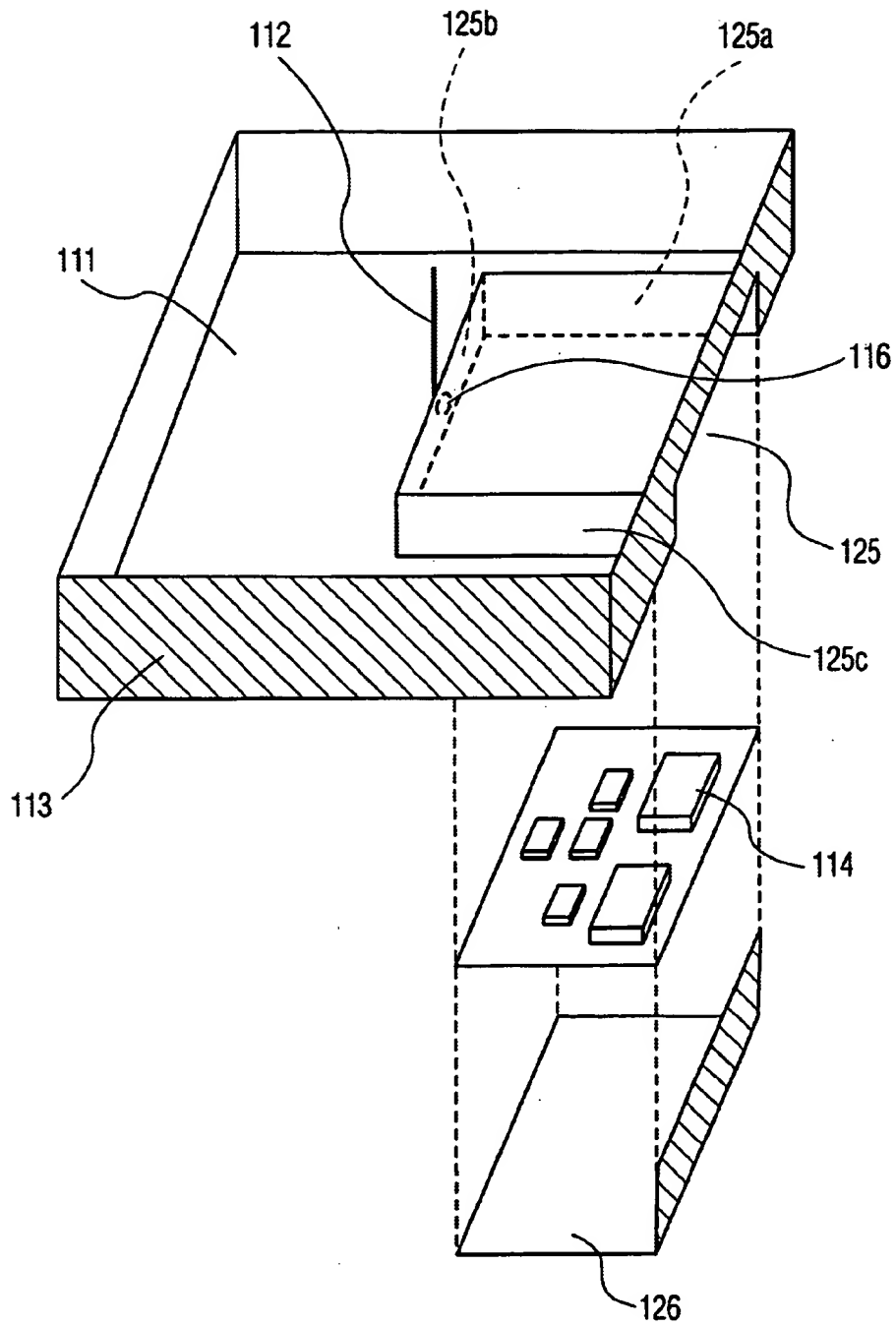


FIG. 52

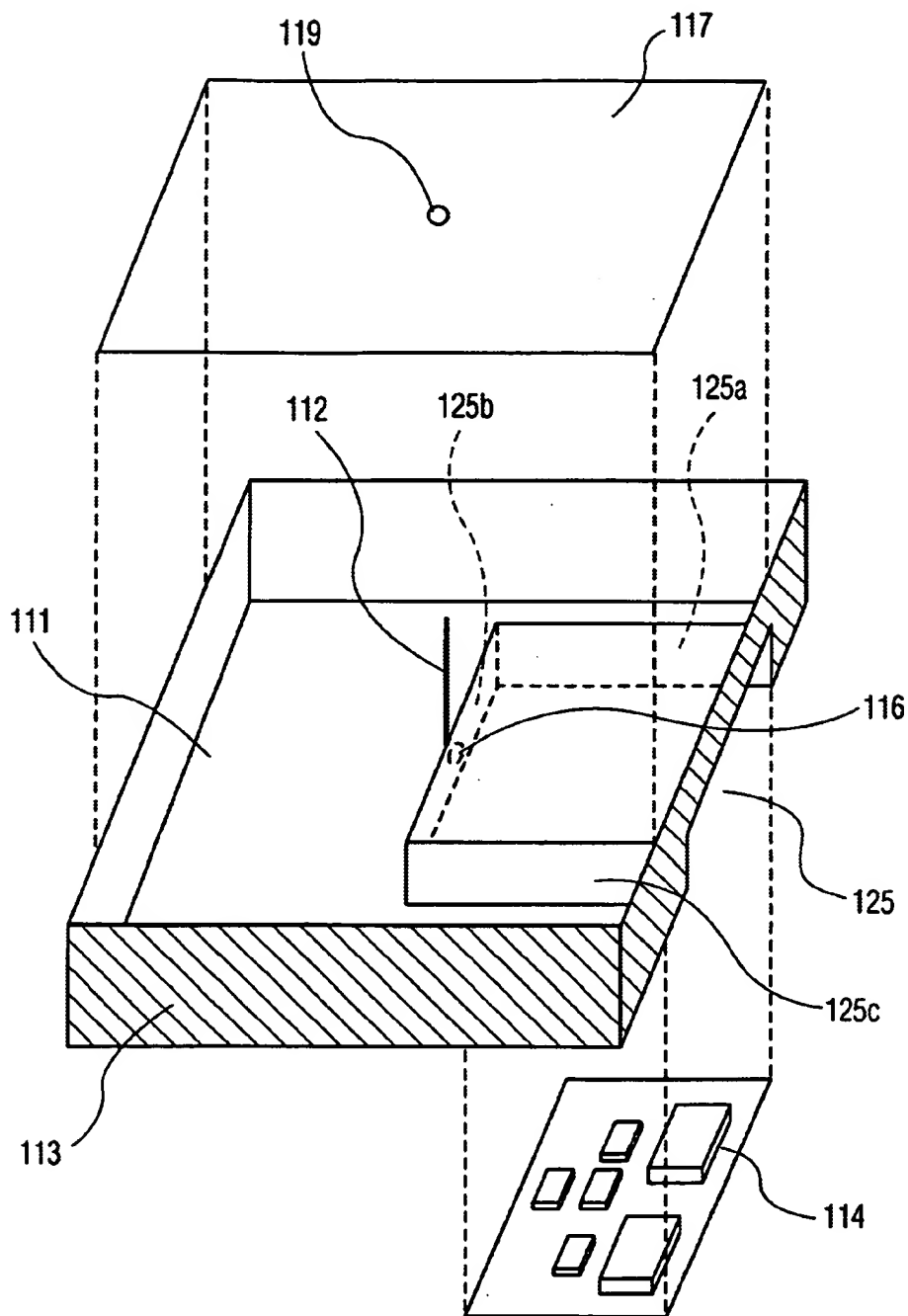


FIG. 53

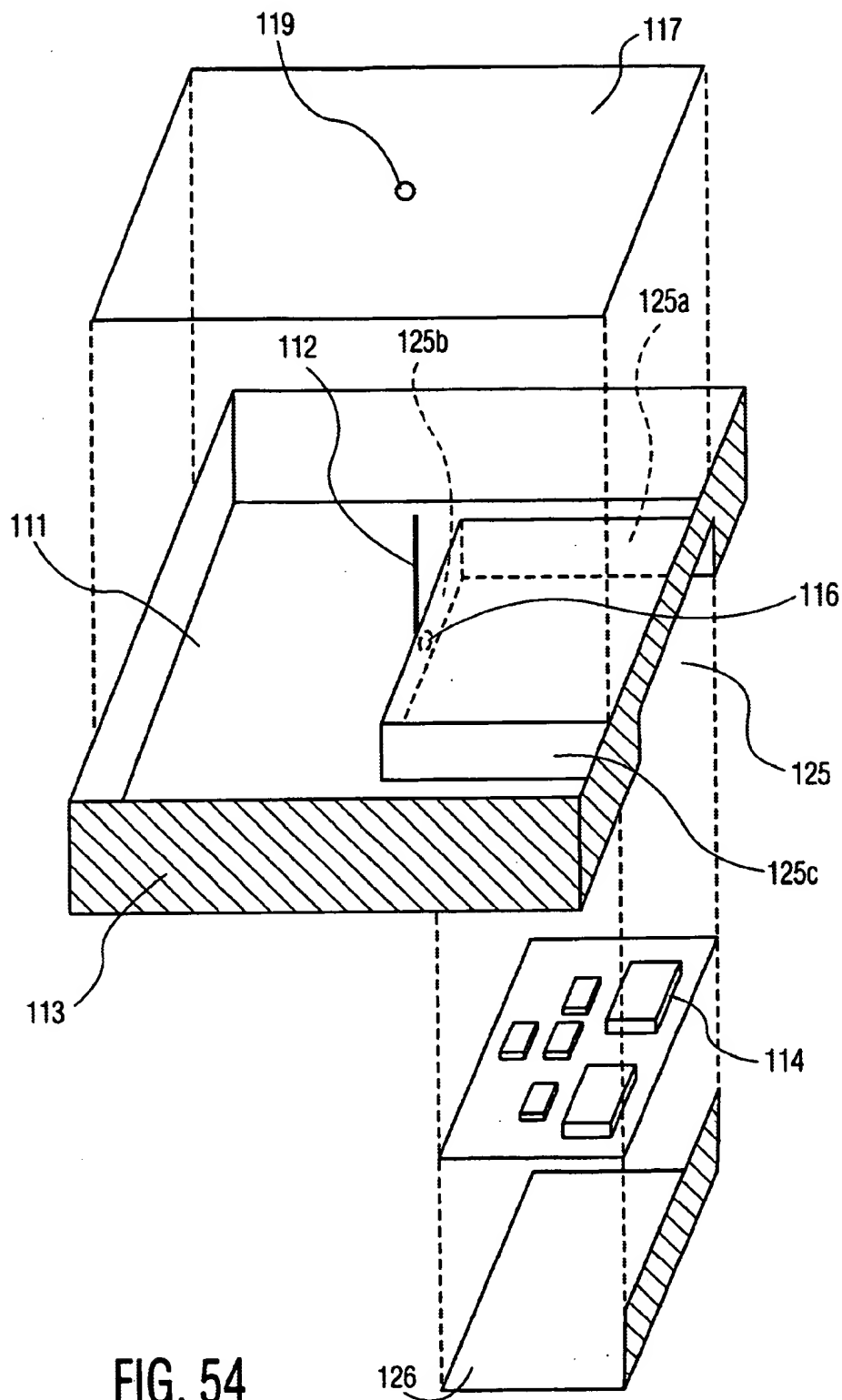


FIG. 54



FIG. 55

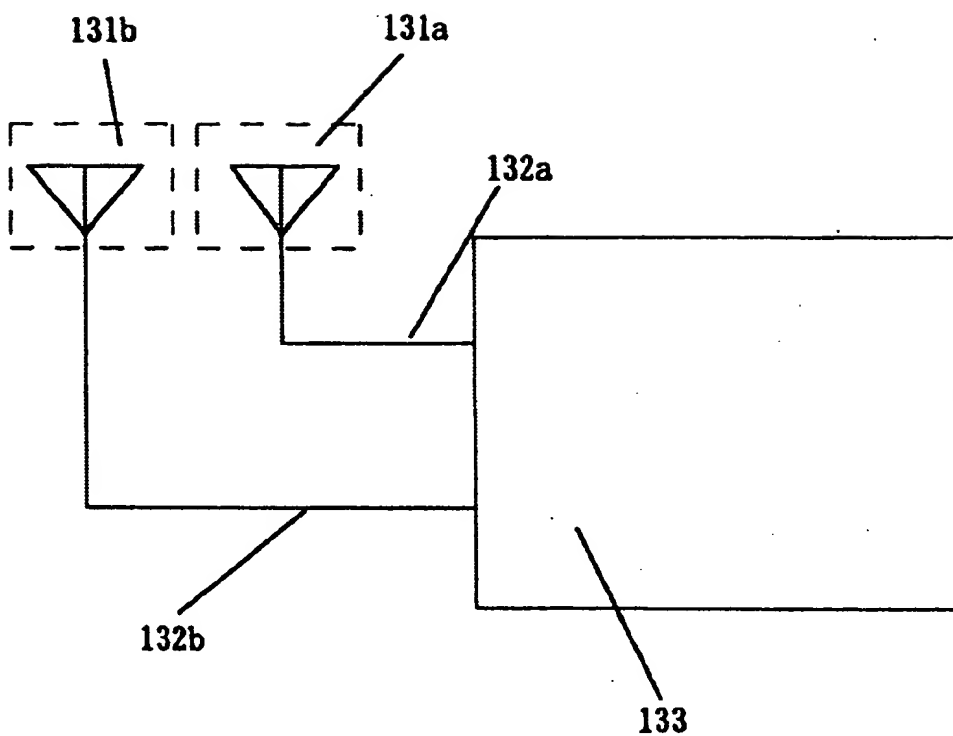
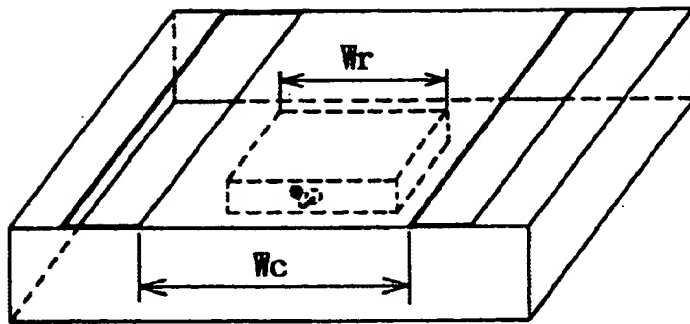
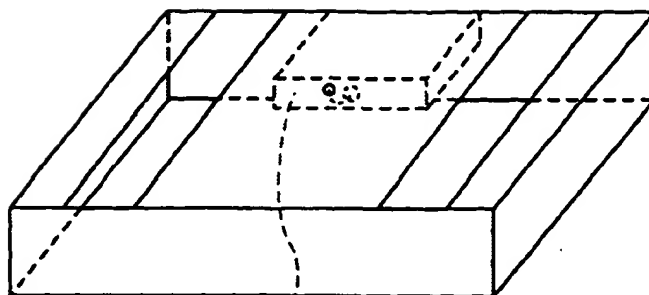




FIG. 56

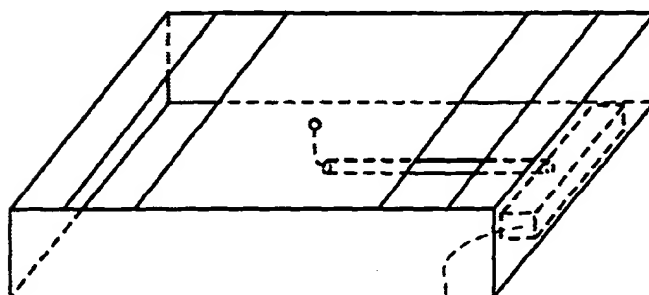


$$W_r < W_c$$



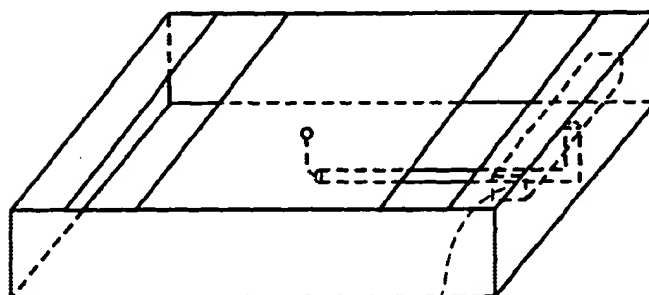
CIRCUIT ON A METAL PLATE IN THE CENTER OF THE UPPER
SURFACE OF A METAL CABINET

FIG. 57A



CIRCUIT ON A BOTTOM METAL PLATE UNDER A METAL PLATE
IN THE EDGE SIDE OF THE UPPER SURFACE OF A METAL CABINET

FIG. 57B



CIRCUIT ON A METAL PLATE (INSIDE A CABINET) IN THE
EDGE SIDE OF THE UPPER SURFACE OF THE METAL CABINET

FIG. 57C

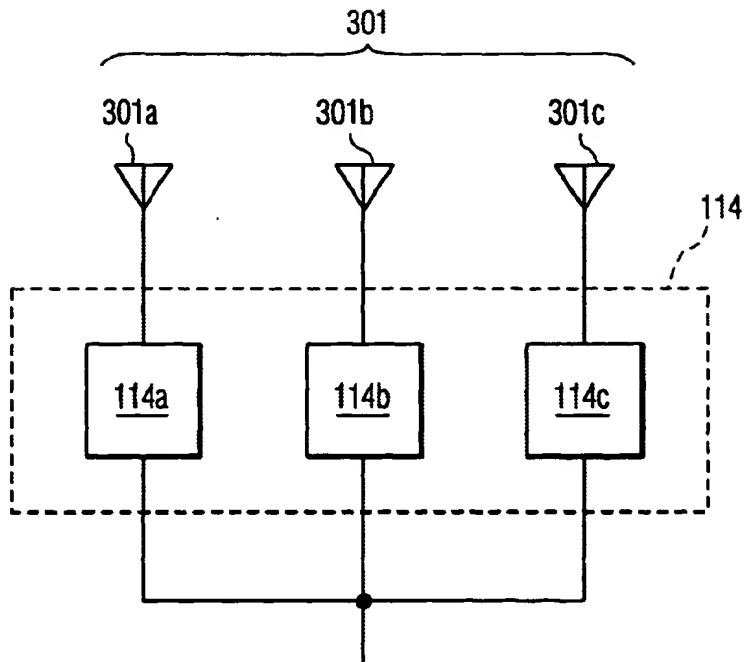


FIG. 58

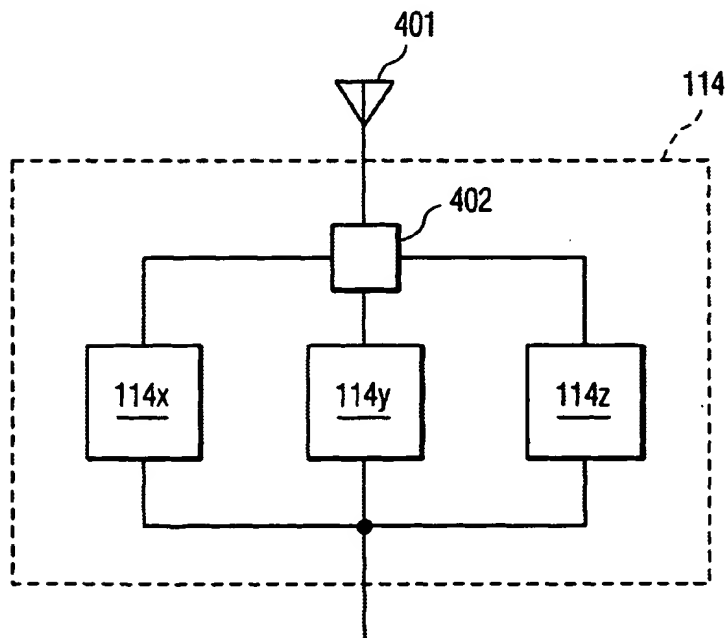


FIG. 59

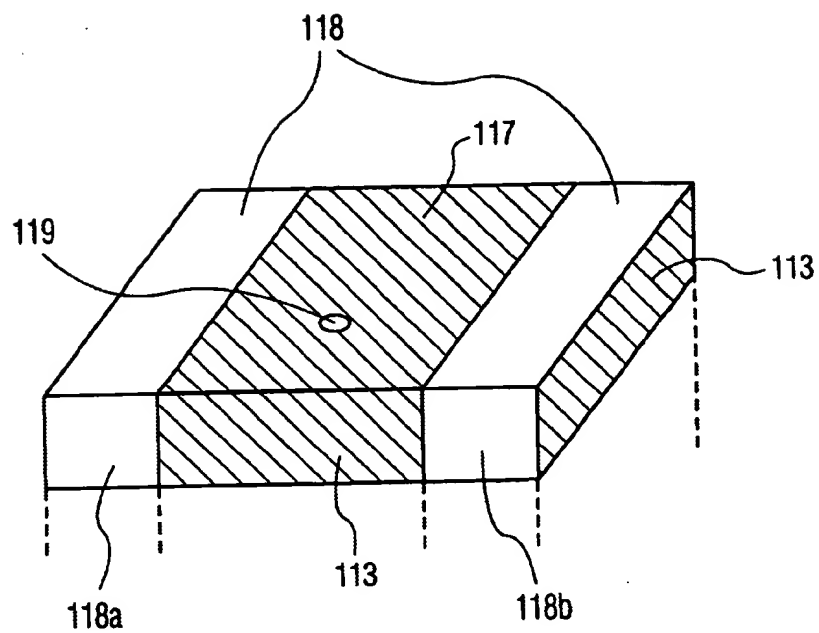


FIG. 60A

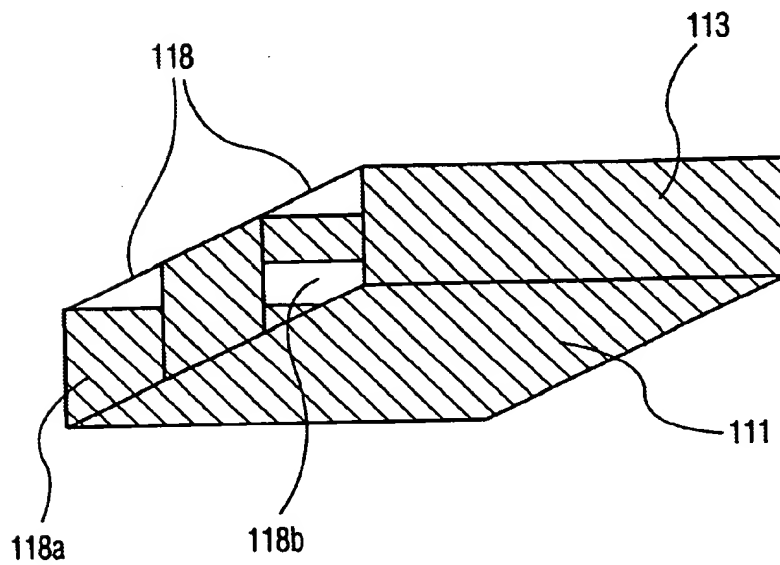


FIG. 60B

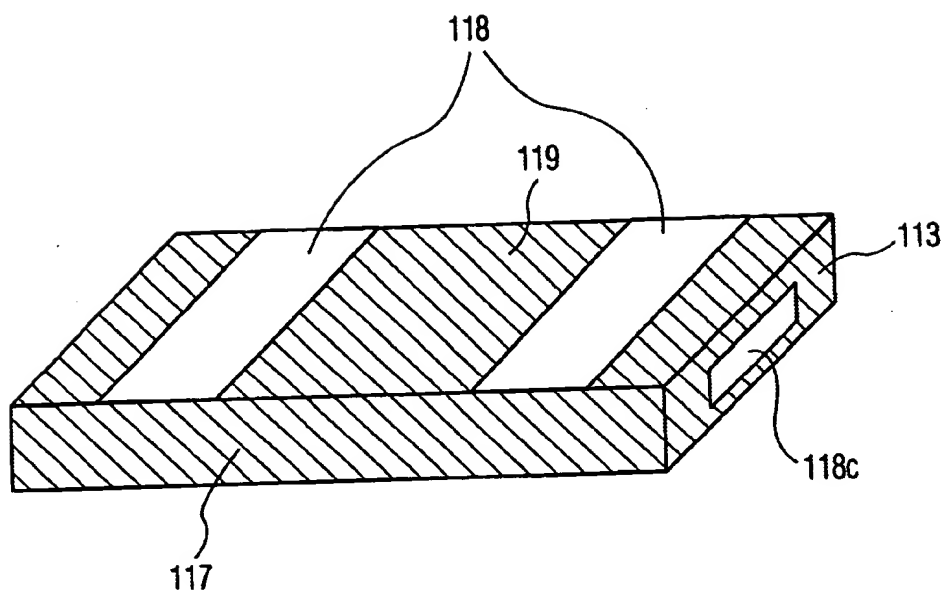


FIG. 60C